## ase 1:21-cv-01609-JLT-CDB Document 153 Filed 06/04/24 Page 1 of 196

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8	THOMSON INTERNATIONAL, INC.		
9	UNITED STATES DISTRICT COURT		
10	EASTERN DISTRICT OF CALIFORNIA		
11			
12	ASHLEIGH ANGELO, et al.,	Case No.: 1:21-cv-016	09-JLT-CDB
13	Plaintiff(s),	DECLADATION OF	DODEDT CEEDS
14	v.		ENDANT'S MOTIONS
15	THOMSON INTERNATIONAL,	IN LIMINE NO. 1	
16	INCORPORATED, et al.,	Date Action Filed:	November 4, 2021
17	Defendant(s).	Trial Date:	July 9, 2024
18		J	
19	I, Robert Seeds, declare:		
20	I am an attorney admitted to practice in this Court, and am employed by Greenar		m employed by Greenan,
21	Peffer, Sallander & Lally LLP, counsel for Thomson International in this matter. I submit this		s matter. I submit this
22	declaration to support all of Thomson's motions in .imine in this case. I can truthfully testify		
23	from my own personal knowledge as follows.		
24	2. I have reviewed the medical records in Dr. Shulman's expert file for Erickson,		pert file for Erickson,
25	Kahlie, Mena and Thompson. None of these records contains any kind of affidavit or declaratio		of affidavit or declaration
26	3. Plaintiffs' joint statement exhibit	t A lists a number of med	dical, health department

and billing records for each of the plaintiffs. I have reviewed all of the designated records, which

are listed below. None of the records includes or is accompanied by any declaration or affidavit

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1	regarding the business records exception:	
2	regarding the business records exception.	
3	Angelo, Ashleigh	
4	Medical Records:	
5	• Henderson Hospital Records (PH PLAINTIFF ANGELO 1 – 555)	
6	• Sunrise Hospital Records (PH PLAINTIFF ANGELO 556 – 590)	
7	• Sunrise Hospital and Medical Center Records (PH PLAINTIFF ANGELO 729 – 956,	
8	1620- 1627)	
9	Centennial Hills Hospital Records (PH PLAINTIFF ANGELO 957-979)	
10	• Laboratory Medicine Consultants Records (PH PLAINTIFF ANGELO 980-981)	
11	Babylon Health Records (PH PLAINTIFF ANGELO 987-1024)	
12	• CareNow Urgent Care – Green Valley & warm Springs Records (PH PLAINTIFF	
13	ANGELO 1026-1050)	
14	Digestive Associates Records (PH PLAINTIFF ANGELO 1051-1065)	
15	• P3 Health Records (PH PLAINTIFF ANGELO 1072-1173)	
16	Southwest Medical Associates Surgery Center Records (PH PLAINTIFF ANGELO	
17	1174-1340)	
18	Urgent Care Sierra Heights Healthcare Center Records (PH PLAINTIFF ANGELO	
19	1343-1431)	
20	• Doctors Center Records (PH PLAINTIFF ANGELO 1628-1635)	
21	Bills	
22	• Henderson Hospital Bills (PH PLAINTIFF ANGELO 591-620)	
23	• Sunrise Hospital Bills (PH PLAINTIFF ANGELO 621-650, 724-728)	
24	Babylon Health Bills (PH PLAINTIFF ANGELO 1025)	
25	• Digestive Associates Bills (PH PLAINTIFF ANGELO 1066-1071)	
26	Southwest Medical Associates Surgery Center Bills (PH PLAINTIFF ANGELO 1341-	
27	1342)	
28	Urgent Care Sierra Heights Healthcare Center Records (PH PLAINTIFF ANGELO 2	

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- 1		
1	1600-1608)	
2	• Southwest Medical Bills (PH PLAINTIFF ANGELO 1609-1613)	
3	Public Health Records	
4	• Southern Nevada Health Department Records (PH PLAINTIFF ANGELO 651-673)	
5	Erickson, Amanda	
6	Medical Records:	
7	• Kalispell Regional Healthcare Records (PH PLAINTIFF ERICKSON 1 – 111)	
8	Case 1:21-cv-01609-JLT-CDB Document 134 Filed 05/10/24 Page 31 of 47	
9	MedNorth Kalispell Urgent Care Records (PH PLAINTIFF ERICKSON 112-140)	
10	Bills:	
11	• Kalispell Regional Healthcare Bills (PH PLAINTIFF ERICKSON 141-143)	
12	• MedNorth Kalispell Urgent Care Bills (PH PLAINTIFF ERICKSON 144-145)	
13	• Northwest Imaging Bills (PH PLAINTIFF ERICKSON 146-147)	
14	Walmart Pharmacy Receipt (PH PLAINTIFF ERICKSON 148)	
15	Health Department Recs:	
16	• Flathead County Health Department Records (PH PLAINTIFF ERICKSON 151-177)	
17	Montana Health Department Records (PH PLAINTIFF ERICKSON 178-190)	
18	Kahlie, John	
19   20	Medical Records	
20   21	• St Charles Hospital Records (PH PLAINTIFF KAHLIE 1-53, 184, 218 – 273)	
$\begin{bmatrix} 21 \\ 22 \end{bmatrix}$	Bills:	
23	• St Charles Hospital Bill (PH PLAINTIFF KAHLIE 54)	
$\begin{bmatrix} 23 \\ 24 \end{bmatrix}$	Health Department Recs:	
25	Oregan Health Department Records (PH PLAINTIFF KAHLIE 55-800)	
26	Deschutes County Public Health Records (PH PLAINTIFF KAHLIE 81-106)	
27		
28	Mena, Jose	

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1	Medical Records:	
2	McKenzie County Rural Clinic Records (PH PLAINTIFF MENA 1-277)	
3	• Sanford Health Records (PH PLAINTIFF MENA 278-304, 334-424)	
4	Bills:	
5	McKenzie County Rural Clinic Bills (PH PLAINTIFF MENA 425-431)	
6	Health Department Recs:	
7	• North Dakota Health Department Records (PH PLAINTIFF MENA 432-438)	
8	Mitchell, Linda	
9	Medical Records:	
10	• Bryn Mawr Hospital Records (PH PLAINTIFF MITCHELL 1 – 360; 535-1058)	
11	• Main Line Family Practice Records (PH PLAINTIFF MITCHELL 361-375; 389-410;	
12	413-422; 437-445)	
13	Bryn Mawr Specialist Association Records (PH PLAINTIFF MITCHELL 1094-1135;	
14	1143-1154; 1175-1253)	
15	Bryn Mawr Hospital Infectious Disease records (PH PLAINTIFF MITCHELL NEW)	
16	1727 - 2247) (Old Bates PH PLAINTIFF MITCHELL 1727-2247)	
17	Bills:	
18	Bryn Mawr Hospital Bills (PH PLAINTIFF MITCHELL 457-471)	
19	• Main Line Family Practice Bills (PH PLAINTIFF MITCHELL 472 – 474)	
20	• Sav-On Pharmacy Prescription Receipt (PH PLAINTIFF MITCHELL 531)	
21	Bryn Mawr Hospital Infectious Disease Bills (PH PLAINTIFF MITCHELL1169)	
22	• Bryn Mawr Specialist Bills (PH PLAINTIFF MITCHELL NEW 1283-1291) (Old Bates	
23	PH PLAINTIFF MITCHELL 1183 – 1191)	
24	Health Department Recs:	
25	• Pennsylvania Health Department Records (PH PLAINTIFF MITCHELL 475-526) <sup>1</sup>	
26		
27	<sup>1</sup> Questionnaire omits both id numbers. Investigation summary has her name but no numbers, and does not say that she had Newport merely that she was a "confirmed case". Multiple hearsay.	
28	Test results do not include Newport. Does not include line list.	

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1	Thompson, James
2	Records:
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4	• Legacy Salmon Creek Records (PH PLAINTIFF THOMPSON 1-40)
5	Cascade Park Medical Office Records (PH PLAINTIFF THOMPSON 2689-2765)
6	• Sunnybrook Surgery Center Records (PH PLAINTIFF THOMPSON 2781-2891)
7	• Kaiser Permanente (Sunnybrook, Orchard, and Salmon Creek locations) Records (PH
8	PLAINTIFF THOMPSON 2909-3147)
9	Kaiser Permanente (Advanced Gastroenterology) Records (PH PLAINTIFF)
10	THOMPSON 3148- 3367)
11	• North County EMS Records (PH PLAINTIFF THOMPSON 3369-3370, 3372 – 3379)
12	Bills:
13	• Legacy Salmon Creek Bills (PH PLAINTIFF THOMPSON 41-45)
14	Cascade Park Medical O ice and Sunnyside Medical Center Bills (PH PLAINTIFF)
15	THOMPSON 2766-2780)
16	• Kaiser Permanente Bills (PH PLAINTIFF THOMPSON 2892 – 2908, 3380-3397)
17	• North County EMS Records (PH PLAINTIFF THOMPSON 3368, 3371)
18	Health Department Recs:
19	Oregon Health Department Records (PH PLAINTIFF THOMPSON 46-55)
20	Washington State Health Department Records (PH PLAINTIFF THOMPSON 56-2620)
21	• Clark County Health Department Records (PH PLAINTIFF THOMPSON 2621 – 2667
22	4. Exhibit 1 is a true and correct copy of pages 9, 20, 21, and 26 – 28 of the
23	deposition taken of Frank Yiannis in this case.
24	5. Exhibit 2 is a true and correct copy of 166 pages my office received after making
25	a Freedom of Information Act request to the FDA. We received the same 166 pages many times
26	in response to such requests. Exhibit 3 is a true and correct copy of the cover letter that
27	accompanied one of them.
28	6. I have reviewed the 166 pages produced by the FDA pursuant to our Freedom of 5

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Information Act request for information regarding its investigation of Salmonella Newport. It contains no records of emails or other communications between FDA employees, or its employees and any other governmental investigators. It does contain a document that we call the CORE report. I have counted more than 50 redactions in that 17 page report. I see in it no fact that supports the FDA conclusion that Thomson red onions were the source of infection for the Salmonella outbreak. It contains no communications between the FDA and the state agencies it worked with on the investigation. It purports to trace the infection back to Thomson through Sysco and Onions 52, but it contains no evidence, and no finding, that Thomson was the only source of onions for Sysco or Onions 52 during the relevant time period. Finally nothing in it indicates that that Onions 52's location was inspected or any samples taken and tested. Exhibit 2 contains an FDA Traceback Investigation Summary. In its 21 pages, I have counted at least 226 redactions that obscure the identities of every entity on its traceback diagrams except 3: Thomson, Onions 52 and Fresh Point.

- 7. I have reviewed the report titled Salmonella Newport/Red onion/Jul 2020 Traceback Investigation Summary that is found in the FDA FOIA response. It begins with 21 pages of narrative in which I have counted at least 226 redactions that conceal virtually all of the evidence the FDA relied on. The FDA production includes a Master Traceback diagram, but it does not appear to include the other attachments that are identified at the end of it.
- 8. I have reviewed over 2000 pages of California Department of Public Health records produced by plaintiff Austin in this case. Exhibit 4 is a true and correct copy of a heavily redacted email exchange that occurred as part of its investigation of the 2020 Salmonella outbreak. Exhibit 5 is a true and correct copy of some 239 pages of invoices, bills of lading and the like that the CDPH gathered in its effort to trace illnesses to their sources. Exhibit 6 is a true and correct copy of an internal CDPH email dated July 31, 2020, the day that Thomson decided to recall all its onions; one of plaintiffs' witnesses, Brandon Adcock is a recipient of this almost completely redacted email; this shows we will be hampered in cross-examining him if he testifies at trial. Exhibit 7 is a true and correct copy of documents I extracted from this production of

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CDPH records to provide examples of the redactions in the California records.

9. The Marler Clark firm produced to us documents that appear to be records that the State of Michigan produced to the firm under its Freedom of Information Act. In the cover letter of its 1172 page production. Michigan stated that it was producing "All non-exempt records pertaining to the Salmonella Newport outbreak in 2020, including Traceback information into the exposures and suspected sources identified for this outbreak." The letter goes on to tell us what Michigan would not disclose:

Pursuant to the federal FOIA statute, redactions have been made by FDA in the enclosed records for confidential commercial information, trade secret information, and personal privacy information.

Furthermore, draft documents completed prior to a final report, deliberative communications made prior to the final agency determination, are denied as it is exempt from disclosure under FOIA, MCL 15.243 Section 13(1)(m), which states communications and notes within a public body of an advisory nature to the extent that they cover other than purely factual materials and are preliminary to a final agency determination of policy or action.

- 10. Exhibit 8 is a true and correct copy of the After Action Report that is exhibit 14 on plaintiff's list.
- 11. Plaintiffs have produced over 2000 pages of documents regarding the Canadian investigation. We have not attached them as an exhibit but if the Court asks we will provide a copy. The Public Health Agency of Canada maintains on its website some records regarding its investigation of the outbreak. Exhibit 9 is a true and correct copy of a document showing the state of its investigation as of July 30, 2020.
- 12. Plaintiff Austin produced over 1000 pages of documents that related to the Canadian investigation. Among the documents in this compilation is an Issue Detail Report numbered 97199 that is identified in this production as a major document relating to the *Salmonella* investigation. Exhibit 10 is a true and correct copy of that document, which I have reviewed in detail. It sheds little light on how the Canadian investigators concluded that Thomson onions were responsible for the alleged outbreak. It largely concerns the recall its title is SALMONELLA NEWPORT IN ONIONS (THOMSON INTERNATIONAL, US RECALL) -SYSCO CANADA INC. and its first 50 pages describe the scope of the recall, not

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the traceback. After those 50 pages there are two pages that have redactions. Following those are 6 pages that look like some sort of time sheets, after which pages 58 - 126 describe the traceback. Of these 69 pages, at least 54 contain redactions, redacting the identities of contact persons and customers who received onions from Sysco. For instance, Page number 60 states that Sysco identified Freshpoint as having supplied "the onions of concern" for some patients That page also shows the investigators learned that "Freshpoint identified [redacted] and Thomson International" as the growers/shippers of the product. Later on the same page the identities of two importers of record are redacted. These redactions leave open the possibility that some supplier other than Thomson supplied infected onions to sick people, contradicting the final conclusion that Thomson was the only source of onions infected with the outbreak strain of Salmonella Newport. Following this, pages 127 to 152 concern the recall and are not redacted. The balance of the file is mixed, with some redactions, including page 158, where the redactions conceal the identity of a source of Salmonella Newport-contaminated onions where the traceback excluded Thomson as the source

- 13. Exhibit 11 is a true and correct copy of another Issue Detail Report from that production. I have reviewed this document and have determined that at least 72 of its 111 pages contain one or multiple redactions.
- 14. Exhibit 12 is a true and correct copy of pages 100 and 108 of the deposition taken of Ernest Julian in this case.
- 15. Exhibit 13 is a true and correct copy of pages 26 – 28 of the deposition of Frank Yiannis.
- 16. I have reviewed the public health and other records produced by these plaintiffs. I have found actual laboratory reports, showing that the plaintiff tested positive for Salmonella Newport, only for Ashley Angelo, John Kahlie, and James Thompson. Exhibit 14 collects true and correct copies of their reports.
- 17. Exhibit 15 collects true and correct copies of Washington State lab reports for tests for Salmonella Newport that we have obtained in this case. Every Washington State lab

report we have seen contains the following warning:

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DISCLAIMER: This test was adopted and its performance characteristics determined by the WA State PHL. It has not been approved by the FDA. Results are for infection control and epidemiological purposes and should not be used as the sole means for clinical diagnosis or patient management

- 18. Ashley Angelo's Lab Report, purportedly issued by the Southern Nevada Health District Laboratory System, appears in a document production numbered PH PLAINTIFF ANGELO 000001 714. Page 672. I have reviewed that production. It includes no affidavit addressing the business records status of any of its pages.
- 19. John Kahlie's Lab Report, purportedly issued by the Oregon State Public Health Laboratory, appears in his Initial Disclosure document production numbered PH PLAINTIFF KAHLIE 000055 000144. I have reviewee that entire production. It contains no document that is under penalty of perjury, and nothing that contains the information needed to satisfy the business records exception. His document production includes a file bates numbered as PH PLAINTIFF 000001-002065. I have reviewed that production. It includes no affidavit or declaration that is under penalty of perjury.
- 20. James Thompson's lab report, produced as TII000059642 to 60697, purporting to have been issued by the Oregon State Public Health Laboratory, was obtained by office via a document subpoena by Compex, an attorney services vendor. Its 1056 page production includes no affidavit or other document showing that any of the production is admissible as a business record.
- 21. Exhibit 16 is a true and correct copy of pages 674 to 714 of a document production by Ashley Angelo, PH PLAINTIFF ANGELO 000001 PH PLAINTIFF ANGELO 000714 (2).pdf
- 22. Exhibit 17 is a true and correct copy of pages 107 to 142 of a document production by John Kalhie, PH PLAINTIFF KAHLIE 000001 PH PLAINITFF KAHLIE 000144.
- 23. Plaintiff Austin, now deceased and dismissed from this case, produced 1144 pages of Washington State Department of Health General Outbreak Records. Exhibit 18 is a true

and correct copy of the first 18 pages of those records, which is a printout from the CDC line list that shows only confirmed cases from the State of Washington, where Austin resided. Austin is case number 89 on that list.

- 24. That same production of Washington State Department of Health General Outbreak Records contains another 3 page line list. Exhibit 18a is a true and correct copy of the that list is a printout from the CDC line list that shows only confirmed cases from the State of Washington, where Austin resided. His name appears on the second page of the exhibit, unreducted..
- 25. Exhibit 19 is a true and correct copy of the document titled "Investigation Report: Factors Potentially Contributing to the Contamination of Red Onions Implicated in the Summer 2020 Outbreak of *Salmonella* Newport".
- 26. Exhibit 20 is a true and correct copy of the document titled "FDA Issues Report Highlighting Salmonella Outbreak in Red Onions" found at https://www.fda.gov/food/cfsanconstituent-updates/fda-issues-report-highlighting-salmonella-outbreak-red-onions
- 27. In this case there is a dispute over whether Ashley Angelo has pancreatitis and if so what caused it. Exhibit 21 is a true and correct copy of an excerpt from 641 pages of medical records that plaintiff Angelo produced in September 2023. It shows her repeating to an urgent care clinic that she had been diagnosed with pancreatitis.
- 28. Exhibit 22 is a true and correct copy of the cover letter to the Michigan FOIA response produced by the Marler firm when it was in this case. That production exceeded 1000 pages.
- 29. Exhibit 23 is a true and correct copy of an email exchange I had with plaintiffs' counsel meeting and conferring regarding motions in limine. We subsequently had a phone conversation regarding the items listed. For the most part, we agreed to disagree. We reached agreement regarding evidence of insurance and of Thomson's financial condition. Plaintiffs agreed to use only one of the four experts retained by the Marler firm. As for recalls, plaintiffs agreed not to use such evidence unless they believed that Thomson had opened the door to the

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1 2 3 4 5 6	exceptions. Exhibit 24 is a true and correct copy of an email that I subsequently sent to him regarding a procedure for implementing that agreement. As of this writing I have not heard from him regarding this, so we are filing a motion in limine arguing for a procedure.  I declare under penalty of perjury under California and Federal law that the foregoing is true and correct. Executed on June 4, 2024 in Contra Costa County, California.
7	Robert Seeds
8	Robert Seeds, declarant
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	<b>DECLARATION OF ROBERT SEEDS SUPPORTING</b> Case No.: 1:21-cv-01609-JLT-CDB

Greenan, Peffer, Sallander & Lally LLP

# **EXHIBIT 1**

SUPERIOR COURT OF THE STATE OF CALIFORNIA

COUNTY OF SAN DIEGO

KEITH ROBERT WILLIS,

Plaintiff,

CERTIFIED TRANSCRIPT

vs.

Case No. 37-2020-00027164-CU-PL-CTL

THOMSON INTERNATIONAL, INCORPORATED, a California Corporation; DOES 1-10, inclusive; ROE ENTITIES 1-10, inclusive,

Defendants.

AND RELATED CROSS-ACTION

Taken remotely before LORI A. YOCK, CSR, RPR

Certified Shorthand Reporter No. 5801

State of California

Monday, July 31, 2023

VIDEOCONFERENCE DEPOSITION OF FRANK YIANNAS, MPH

- Q. Can you give me an estimate?
- 2 A. I would be guessing, but we can go back and
- 3 look at the outbreak table that the FDA publishes in a
- 4 transparent manner for the public and see how many
- 5 outbreaks the FDA was reporting at that time. We can
- 6 get that number with precision.
- 7 Q. Okay. So is it a number like five or 500?
- 8 A. Oh, no. It's never 500, thank goodness for
- 9 that. But I would say in the summer months it could
- 10 range from five to ten outbreak investigations going on
- 11 at any given time.
- 12 Q. All right. Now, based on your description, I'm
- 13 thinking that you are the most senior person at the FDA
- 14 who was involved in the Salmonella Newport outbreak in
- 15 2020 --
- 16 A. Yes, that would be correct.
- 17 Q. How many people reported directly to you on
- 18 the -- and let me just back up a second. I don't want to
- 19 have to keep saying the long name. So can I just call it
- 20 the outbreak?
- 21 A. Sure. We'll know you are talking about this
- 22 one.
- 23 Q. Yes. So how many people reported to you about
- 24 the outbreak investigation?
- 25 A. Well, in terms of reporting structure, that

#### to keep investigating at all?

- 2 A. It doesn't have to, but -- there's no legal
- 3 definition that says that, you know, FDA, you have to.
- 4 But I think that's clearly what is expected from a
- 5 public health agency is to try to understand why this
- 6 happened. Again, to use an analogy, as in an airplane
- 7 disaster, people want to investigate why it happened to
- 8 see if we can prevent these things from happening again.
- 9 And so while the FDA is always pressured with
- 10 too much work to do and limited resources, I can tell
- 11 you outbreak investigations are a pretty high priority
- 12 because of that nature. So during my tenure, we pushed
- 13 very hard to say when outbreaks happen it's not enough
- 14 to respond and simply remove contaminated product from
- 15 the market. We need to understand why they occurred and
- 16 try to prevent them from happening in the first place.
- 17 And I will tell you, if you talk to congressional
- 18 leaders, which I have many times, that's the
- 19 expectation, too, is, you know, how do we prevent these
- 20 things from happening. So let's just not remove
- 21 contaminated product from the marketplace.
- 22 Q. Is there any leg of the FDA's outbreak
- 23 investigation that is intended to impose liability on
- 24 anyone?
- 25 A. No. The outbreak investigation isn't what I

- 1 document it. But I think really you're going to spend a
- 2 lot of time asking questions that aren't really that
- 3 relevant. The truth of the matter is the FDA document
- 4 outlines the four distributors; they name them. And if
- 5 you ask Onions 52, the shipments of onions from Thomson
- 6 to those four distributors they did not handle. I am
- 7 fully prepared to tell you how I know with confidence
- 8 that Distributor D linked to those points of service,
- 9 but we're arguing for something that isn't really
- 10 substantial or material. You just need me to show you
- 11 the paper trail.
- 12 But that's how you do it. You see the clusters
- of cases, you see the illnesses, you know what
- 14 distributor, and you can easily deduce which points of
- 15 the boxes they're in there. That's the methodology. I
- 16 think it's clear as day. You might want to spend two
- 17 hours talking about it, but it is what it is, Bob. It's
- 18 undeniable.
- 19 Q. Well, that's your testimony, and I get that.
- 20 And I get that you're advocating a position, and I'm not
- 21 debating with you. I want to understand how you got
- 22 there, and I'm entitled to do that. So let me go here.
- 23 You told me in your prior deposition that this
- 24 traceback concerned red onions, correct?
- 25 A. Yes.

- 1 A. Yes, sir.
- 2 Q. Is there anything there that tells you that the
- 3 red onions did not pass through Onions 52?
- 4 A. That the red onions did not pass through. No,
- 5 the fact that the FDA was tracing forward these
- 6 particular lots told me that they knew they were red
- 7 onions. To me it's just a function of they didn't
- 8 document it here in their summary, but you can see,
- 9 trace forward where they were tracking was those jumbo
- 10 red onions.
- 11 Q. I'm not -- I'm not questioning that it's red
- 12 onions. I'm trying to understand now that Minkus was
- 13 distributing red onions --
- 14 A. From Thomson. That they originally received
- 15 through Thomson through a business dealing with
- 16 Onions 52.
- 17 Q. That's the next part I'm going to. So it's
- 18 your testimony, as I understand it, that you have data
- 19 that says that the red onions that Minkus was handling
- 20 went to Minkus directly from Thomson without passing
- 21 through Onions 52.
- 22 A. That's correct.
- Q. And I'm trying to find out where that fact is.
- 24 It may not be in this document.
- 25 A. It's not in this document. It will have to be

- 1 through the packing slips and the business transactions
- 2 that occurred. But those records exist. What we're
- doing ultimately, Bob, is we're trying to summarize the
- 4 chain of custody in a word document here. And sometimes
- 5 when people are documenting this, they're leaving out
- 6 words that you and I might have wished they would have
- 7 put in there. We wish they would have put "red onions"
- 8 in there. But I think to satisfy you, it seems like at
- 9 the end of the day you're going to have to see all these
- 10 packing slips and invoices and bills of lading lined up
- 11 so you can see the chain of custody and the documents in
- 12 which these documents that we're reviewing were dropped.
- 13 Q. Have you seen all those documents and bills of
- 14 lading lined up?
- 15 A. No. I never saw those documents Bob, when I
- 16 was deputy commissioner because there were a lot of
- 17 documents, but I relied on the summaries that the FDA
- 18 CORE team did. But those documents would exist, and FDA
- 19 would have seen them and have them in their database.
- 20 And the documents will exist in the entities as well,
- 21 whether it's Onions 52 or Thomson or Minkus Family Farm,
- 22 if they kept them. They certainly existed at the time
- 23 of the investigation.
- Q. Okay. So what is the information then that you
- 25 saw -- and maybe you didn't see any -- that supports

- 1 your statement that these red onions did not pass
- 2 through Onions 52?
- 3 A. There were conversations that were had with
- 4 Onions 52. And I will work through Marler and Clark to
- 5 say that they -- to make sure that we get to see the
- 6 chain of custody. But they're based on verbals at this
- 7 point.
- 8 Q. Did you participate in those conversations?
- 9 A. In this one I didn't. I have participated in
- 10 some conversations with Onions 52, but in this
- 11 particular case, verifying that the conclusions on this
- 12 diagram -- the question -- the big question that I had,
- 13 and Marler Clark was able to answer it through
- 14 conversations with Onions 52, for these transactions
- 15 with these distributors, did they take possession of
- 16 them. And the answer is no.
- 17 Q. I'm going to show you my screen. I'm showing
- 18 you an email from Joseph Bermudez to Jenny Schell dated
- 19 Wednesday, 10-25-2023.
- 20 A. Yes.
- 21 Q. Is that what you're referring to?
- 22 A. I suspect this is the conversation that was had
- 23 between Marler Clark and Joseph Bermudez, who I've
- 24 talked to in the past, yeah. I'm trying to read it
- 25 here: CFO confirmed that shipments directly from --

	D (0)
1	Page 137 CERTIFICATE OF REPORTER
2	
3	I, LORI A. YOCK, CSR No. 5801, a Certified
4	Shorthand Reporter in and for the State of California,
5	do hereby certify:
6	That prior to being examined, the witness named
7	in the foregoing deposition was by me duly sworn to
8	testify to the truth, the whole truth, and nothing but
9	the truth.
10	That said deposition was taken before me via
11	video conference at the time set forth and was taken
12	down by me in shorthand and thereafter reduced to
13	computerized transcription under my direction and
14	supervision, and I hereby certify the foregoing
15	deposition is a full, true and correct transcript of my
16	shorthand notes so taken.
17	And I further certify that I am neither counsel
18	for nor related to any party to said action nor in any
19	way interested in the outcome thereof.
20	IN WITNESS WHEREOF, I have hereunto subscribed
21	my name this 11th day of August, 2023.
22	
23	Carried Hock
24	LORI A. YOCK CSR No. 5801
25	
1	

# **EXHIBIT 2**



Salmonel Newport/Red Onion/Jul 2020 EON # 432687 Incident Summary Report 11/3/20

## **Authors:**

CORE Signals & Surveillance Team: Tyann Blessington, PhD, MS, MPH CORE Response Team (3): Evelyn Pereira, MPH

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#### **ABSTRACT**

On 7/13/20, after receiving notification from PulseNet, FDA CORE Signals began evaluating a cluster of 134 Salmonella Newport illnesses from 16 states [CA (3), IA (3), IL (1), MI (13), MN (3), MO (2), MT (11), NC (3), OH (5), OR (42), SD (8), TN (1), UT (28), WA (1), WI (1), WY (9)]. Canadian health authorities reported one clinical isolate matching the genetic sequence of this cluster. At the time of transfer, epidemiologic information was unable to identify a single suspect vehicle. Vehicles of interest included: tomatoes, cilantro, onions, and peppers. The traceback investigation was narrowed to red onions based on the findings of the Canadian outbreak investigation which identified red onions from Thomson International Inc. (Bakersfield, CA) as the likely source of Canadian illnesses. FDA's traceback investigation identified Thomson International Inc. (Bakersfield, CA) as the source of red onions to ten US POS where ill people reported exposure prior to becoming ill. On 8/1/20, Thomson International Inc. (Bakersfield, CA) initiated a recall of red, vellow, white, and sweet vellow onions. A total of 113 samples were collected by FDA during investigations at Thomson International, Inc (Bakersfield, CA) or targeted sampling at distribution centers. Ten samples (4 sediment, 1 scat and 5 ultrafiltration water samples) were reported positive for Salmonella but did not match the outbreak strain. The vehicle for this outbreak was confirmed as red onions based on the epidemiologic and traceback evidence. At the conclusion of the CORE Response phase, a total of 1132 cases in 48 states [AK (25), AL (2), AR (2), AZ (39), CA (128), CO (32), CT (2), DE (2), FL (8), GA (11), HI (3), ID (43), IL (54), IN (4), IA (31), KS (3), KY (3), ME (6), MA (2), MD (7), MI (47), MN (19), MO (11), MS (5), MT (72), NC (6), ND (9), NE (10), NH (1), NJ (12), NM (3), NV (14), NY (14), OH (11), OK (1), OR (110), PA (27), RI (3), SC (1), SD (24), TN (7), TX (2), UT (115), VA (10), WA (150), WI (11), WV (3), WY (27)] and 515 Canadian cases in 7 Canadian provinces were associated with this outbreak.

## SIGNALS AND SURVEILLANCE ACTIVITIES

On 7/10/20, PulseNet users were notified of a national cluster of *Salmonella* Newport illnesses, that were genetically related to historical almond isolates and a historical Newport cluster. On 7/13/20, CORE Signals and CDC discussed the emerging outbreak and the cluster's relationship to historical isolates. The cluster rapidly expanded and at the time of transfer on 7/21/20, there were 134 cases across 16 states: CA (3), IA (3), IL (1), MI (13), MN (3), MO (2), MT (11), NC (3), OH (5), OR (42), SD (8), TN (1), UT (28), WA (1), WI (1), WY (9). Most illnesses were geographically focused within the central, midwestern, and western states. Isolation dates ranged from 6/20/20 to 7/11/20, and available onset dates (n=42) ranged from 6/19/20 to 7/7/20. The cases ranged in age from 2 to 92 (median = 40) years, and 55% of cases were female. Twenty-four cases were hospitalized, and there were no deaths. At the time of transfer, the outbreak was considered to be ongoing and was expected to expand

due to a 16-day lag time (the time between illness onset and laboratory confirmation).

The genetic sequences of the cluster isolates for the outbreak cluster 2007MLJJP-1 were considered highly related by 0-4 alleles and 0-6 SNPs. Additionally, Canadian health authorities reported one clinical isolate matching the genetic sequence of this cluster. Of historical note, the isolates for outbreak cluster 2007MLJJP-1 were within five alleles or 11 SNPs of isolates from the outbreak cluster, 1509MLJJP-1, which closed without an identified vehicle. In addition, NCBI's Pathogen Detection Pipeline identified historical clinical isolates from the United Kingdom as well as CA almonds (raw almond samples collected in 2016 and 2017) that were within 14 SNPs from this cluster. The nut samples were collected under a blinded sampling assignment with a contract laboratory and the associated firm and branding information were not available.

CDC hosted States calls on 7/15/20 and 7/20/20 and cases reported multiple common exposures including, fresh produce (tomatoes, cilantro, onions, and leafy greens), eggs, cheese, beef, chicken, and pork. Tree nuts were rarely reported (3/25 cases). State investigators decided to interview a select few existing and new cases with a modified National Hypothesis Generating Questionnaire (NHGQ). The only food items that were significant ( $\alpha$  =0.05) when compared to the FoodNet Population Survey were cilantro and leafy greens. Cases across several states reported consuming foods from Mexican-style and sandwich-style restaurants. Nationally, 6 cases reported Subway, 3 reported Jersey Mike's, and 2 reported Jimmy John's. Many state partners reported an increase and/or backlog of *Salmonella* Newport or *Salmonella* isolates pending further characterization in their laboratories.

Eight restaurant and facility subclusters were identified in CA and OR.

• The California Department of Public Health investigated 5 Mexican-style restaurant sub-clusters all located in the Northern CA region and all part of a larger Salmonella serogroup C outbreak investigation. The 5 subcluster locations and their subcluster identifications are listed below. At the time of transfer, most illness isolates were pending WGS, therefore it was unknown if these illnesses were related by WGS or epi-linked to the Newport cluster, 2007MLJJP-1. Two 2007MLJJP-1 cluster isolates, CA\_\_M20X01046 and CA\_\_M20X01079, were associated with CA subcluster 1 and 2, respectively. The remaining isolates associated with the CA clusters were not sequenced by the time of transfer. All serogroup C outbreak cases were residents of Northern CA and most were from the San Francisco Bay area. Most cases reported consuming fresh produce as part of their meal or as an ingredient in salsa and pico de gallo. Identified meal dates ranged from 6/16/20 to 7/7/20. State investigators requested the restaurants to

provide lists of ingredients (including dried spices and seasonings) used to make pico de gallo, salsas, and guacamole. Invoices for produce (including cilantro and tomatoes) were requested for all restaurants. Cilantro and tomatoes were the items of greate

- o (CA-01), o (CA-02), o (CA-03), o (CA-04), o (CA-05),
- Oregon Health Authority investigated 3 subclusters; 2 were associated with restaurants (Mexican-style and Subway) and the 3rd was associated with an assisted living center. The 3 subcluster locations and their subcluster identifications are listed below. Identified meal dates ranged from 6/25/20 to 7/7/20. On 7/17/20, Josephine County Public Health issued a public notice of their investigation for subcluster OR-01. Product samples of cilantro (OR-01), onion (OR-02), and tomato (OR-01, OR-02, and OR-03) were collected from the points-ofservice for microbiological analysis. All were negative.
  - o (OR-01), (b) (4)

(b)(4)

o (OR-03), Subway (various locations)

At the time of transfer, microbiological and epidemiological information were unable to identify a single suspect vehicle. CDC believed the vehicle was likely an FDA-regulated food product; tomatoes, cilantro, onions, and peppers were items of greatest interest. Supplier review and traceback evaluation were needed to identify common suppliers and aid in the evaluation of the vehicle items of interest. CDC was preparing a web-based public notice about this outbreak and investigation at the time of transfer.

This incident was transferred from CORE Signals to CORE Response Team 3 on 7/21/20 based on the following rationale:

- This was a rapidly expanding multi-state outbreak likely associated with a FDA-regulated product; items of interest included tomatoes, cilantro, onions, and peppers.
- Response coordination for traceback, sampling, product and firm actions, and communication was needed.

## RESPONSE

## **Epidemiology**

A case was defined as a person with infection with *Salmonella* Newport with an isolate matching by cgMLST within 0-6 alleles and an illness onset on or after 6/15/20. This outbreak included 1132 cases from 48 states [AK (25), AL (2), AR (2), AZ (39), CA (128), CO (32), CT (2), DE (2), FL (8), GA (11), HI (3), ID (43), IL (54), IN (4), IA (31), KS (3), KY (3), ME (6), MA (2), MD (7), MI (47), MN (19), MO (11), MS (5), MT (72), NC (6), ND (9), NE (10), NH (1), NJ (12), NM (3), NV (14), NY (14), OH (11), OK (1), OR (110), PA (27), RI (3), SC (1), SD (24), TN (7), TX (2), UT (115), VA (10), WA (150), WI (11), WV (3), WY (27)]. Isolation dates ranged from 6/20/20 to 9/14/20, while confirmed reported onset dates ranged from 6/19/20 to 9/11/20. Ages ranged from 5 days to 102 years (median 41), and 58% of cases were female. Of the cases with information available, 167/705 (24%) were hospitalized, and there were no reported deaths. All isolates were closely related to each other at 0-6 alleles by cgMLST.

There were early signals for Mexican-style foods. Canada identified clinical cases caused by the same strain and noted red onions as a leading hypothesis in their investigation. Based on Canada's findings and preliminary review of traceback records, red onions were identified as the suspect vehicle.

From 380 returned questionnaires for the US outbreak, 344 (91%) ill people reported consuming onions or meals that likely contained onions. Of which, 66% of cases reported consuming red onions, or meals that likely contained red onions, 62% reported white onions, and 53% yellow onions. Some cases reported eating multiple onion varieties.

CDC closed this investigation as of 10/2/2020 with red onions as the confirmed vehicle of this outbreak.

The Public Health Agency of Canada declared the Canadian outbreak over on 9/25/20. At closeout, there were 515 confirmed cases of *Salmonella* Newport linked to this outbreak in the following provinces: British Columbia (121), Alberta (293), Saskatchewan (35), Manitoba (26), Ontario (14), Quebec (25) and Prince Edward Island (1). Seventy-nine of 419 individuals (79%) with information available were hospitalized. Three people died (deaths not attributed to *Salmonella*). Illnesses occurred between 6/15/20 (onset) to 8/28/20 (specimen collection date).

The CDC linelist and WGS tree are available on EON # 432687.

## **Traceback**

A regulatory traceback was initiated for four legs at bounded points-of-service (POS) in response to this outbreak of Salmonella Newport illnesses. Four traceback legs representing 26 cases were initiated on 07/21/20. Factors used in identifying "best cases" were: more than one case at a single POS with exposures to red onions. Case patients included in the traceback investigation had known meal/exposure dates which ranged from 06/19/20 to 07/15/20. The timeframe of interest for record collection was identified as two weeks at POS for known meal dates and three weeks for onset dates.

## Additional Traceback and Traceforward Information

The four legs of traceback were performed on the confirmed vehicle of red onions. Exposures to other colors of onions were identified by CDC and state partners. The California Department of Public Health (CDPH) and the Michigan Department of Agriculture & Rural Development (MDARD) performed traceback of yellow onions for (b) (4) points-of-service.

CDPH traced onions (red and yellow) from  $^{(b)}$  points-of service (POS). Thomson brand yellow onions were sourced from Onions 52 (Syracuse, UT) for  $^{(b)}$   $^{(d)}$  of the  $^{(b)}$   $^{(d)}$  POS. Additional yellow onion suppliers were identified for each of the  $^{(b)}$   $^{(d)}$  POS. POS sourced yellow onions from  $^{(b)}$   $^{(d)}$   $^{(b)}$   $^{(d)}$  The traceback for these legs was limited by recordkeeping, especially at the level of the suppliers to the points-of-service.

MDARD traced yellow onions from (b) (4) points-of-service. (b)(4) POS received yellow onions that were sourced solely from Thomson International (Bakersfield, CA) via Onions 52. (b) (4) POS sourced onions from (b) (4) including Thomson International (Bakersfield, CA) via Onions 52. (b) (4) POS received onions from (b) (4) but not Thomson International (Bakersfield, CA) or Onions 52 (Syracuse, UT).

Through the recall audit check procedures, traceforward information was obtained describing customer lists that received recalled onions. A traceforward product flow diagram was produced showing Thomson International Inc's direct customers, as well as the supply chains for the four legs of red onion traceback, and the yellow onion tracebacks performed by the CDPH and the MDARD. The POS identified in the traceforward product flow diagram indicate if red and/or yellow onions sourced from Thomson International Inc were known to have been supplied at some time; this does not indicate if the onions were the onions that were consumed by the cases, just known distribution. Additional grocery companies identified in the recall audit check and downstream recalls included: ALDI, Food Lion, Giant Food, Hello Fresh, Imperfect Foods, Kroger, Publix Super Markets, Stop & Shop, Walmart, and WinCo.

#### Traceback Conclusion

The traceback investigation identified four legs of distribution for red onions served at points-of-service. Thomson International Inc (Bakersfield, CA) was identified as the source of the red onions based on convergence of the legs of traceback. Additional information from traceback investigations performed by CDPH and MDARD support this conclusion

#### Traceback Limitations

This traceback investigation was limited by the exposure information provided by cases in identified clusters, the size of illness clusters identified, limited supply chain diversity identified, and lack of adequate recordkeeping. Epidemiologic information regarding case exposures was limited when cases were unable to recall the type of onions consumed. The majority of the clusters, nine of ten, were less than four cases per point-of-service. Three of the four legs of red onion traceback were through various Sysco distribution centers and did represent a broader diversity of supply chains.

Records were not available or were incomplete at some points along the distribution chains: (b) (4) did not identify Sysco as a supplier, but later records from Sysco identified it as such; records at Thomson International Inc for field level information were known to be incorrect and information used in this traceback was the best information that the firm could identify.

The traceback summary, timeline and diagrams are available on EON # 432687.

# **Establishment Inspections and Investigations**

investigation received onions from (b)4)

Record Requests

On 7/24/20, CORE issued an information request to ORA HAF1E (NWE-DO) for traceback data from Subway Company (b) (4) . The request was fulfilled on 7/30/20. Multiple, but not all, Subway locations identified by ill people were supplied onions from (b) (4) ; (b) (4) However, given that (b) (4) could not explain all the Subway exposures, no follow up was conducted at (b) (4)On 7/27/20, CORE issued an assignment (eNSpect Assignment #167287) to ORA HAF3W (DAL-DO) for record collection at Sysco (b)4)

TX; FEI #(b)4) . The Sysco locations included in the US traceback

On 7/28/20, CORE issued an assignment (eNSpect Assignment #167509) to ORA HAF4W (DEN-DO) for record collection at Onions 52 Inc (Syracuse, UT; FEI #3016800010) related to the Canadian traceback investigation. Records were received on 7/29/20 and forwarded to Canadian partners for review. The assignment was closed out on 7/31/20.

On 7/28/20. CORE requested record collection by ORA HAF6W (SEA-DO) from (b) (4) ). Records were received on received onions from (b) (4) suppliers. Due to lack of 7/28/20. (D) (4) convergence on these suppliers, follow up was not conducted at these suppliers. On 8/4/20, CORE issued an assignment (eNSpect #169871) to ORA HAF6E (CHI-DO) for record collection at (b) (4) . This was a supplier of interest for a MI subcluster not supplied by Sysco (b) (4) ). Records were received on 8/6/20 and no additional follow up was initiated. The assignment was closed out on 8/12/20. On 8/10/20, CORE issued an assignment (eNSpect #170684) to ORA HAF6E (CHI-DO) for record collection at (b) (4) ). (b) (4) received red onions from (b) (4) suppliers (D) (4) ) and which was subsequently supplied to one subcluster. Follow up at the identified suppliers was not initiated.

# Targeted Sampling

On 8/19/20, CORE issued an assignment (FACTS# 12061015) to ORA HAF1E (NWEDO) for product sampling at Sysco (b)(4), MA). Two samples were collected. The assignment was closed out on 8/24/20.

On 8/19/20, CORE issued an assignment (FACTS# 12061168) to ORA HAF1E (NYK-DO) for product sampling at Sysco (b)(4), NY). Eighteen samples were collected. The assignment was closed out on 8/25/20.

On 8/19/20, CORE issued an assignment (FACTS# 12061016) to ORA HAF3W (DAL-DO) for product sampling at Sysco (b)(4) , TX). Two samples were collected.

On 8/19/20, CORE issued an assignment (FACTS# 12061017) to ORA HAF4W (DENDO) for product sampling at Sysco (b) (4) (FEI) (b) (4) ; (b) (4) , UT). Twenty-four samples were collected. The assignment was closed out on 8/25/20.

On 8/19/20, CORE issued an assignment (FACTS# 12061018) to ORA HAF6W (SEADO) for product sampling at Sysco(b) (4) (FEI # (b)(4) , OR). Sixteen samples were collected. The assignment was closed out on 8/21/20.

The samples that were collected consisted of red, white or yellow onions subject to recall by Thomson International, Inc. (Bakersfield, CA).

#### **Investigations**

CORE issued an assignment (FACTS #12055268) to ORA HAF5W (SAN-DO) for an inspection including record collection and environmental sampling at Thomson International Inc. (Bakersfield, CA; FEI #3004391505) on 8/2/20. The inspection was initiated on 8/3/20 by ORA HAF5W and the California Department of Food and Agriculture. The assignment was closed out on 8/5/20.

CORE issued an assignment (FACTS #12055297) to ORA OHAFO Domestic Produce Safety Branch (ORA PSN) for an investigation and sampling at Thomson International Inc. (Bakersfield, CA; FEI #3004391505) on 8/2/20. On 8/6/20, ORA PSN, California Department of Public Health and the California Department of Food and Agriculture initiated the investigation. Based on traceback records received from Thomson International Inc (Bakersfield, CA), CORE identified three fields [Thomson Gladestone (Glad E), R&G FLD 161, Thomson 32-1] in Bakersfield, CA and one field in Holtville, CA (Pepper 22), where the implicated lots were harvested. Investigators collected product, soil, water, environmental and sediment samples. A FDA-4056 was not issued for either investigation but a discussion was held with the firm to discuss the exclusion of pests, records management and cleaning and sanitizing procedures. The inspection was closed out on 8/27/20.

CORE issued an assignment (FACTS #12060391) to ORA OHAFO Domestic Produce Safety Branch (ORA PSN) for an investigation and water and environmental sampling at Thomson International Inc. (Bakersfield, CA; FEI #3004391505) growing fields and surrounding area in Holtville, CA on 8/18/20. One implicated lot included in the traceback was harvested from the Pepper 22A field in Holtville, CA. On 8/20/20, ORA PSN initiated the investigation. Investigators collected soil, water, environmental and sediment samples. A FDA-4056 was not issued. The inspection was closed out on 8/24/20.

As a follow up to the first investigations, ORA PSN initiated investigations (FACTS # 12068471) at Thomson International Inc. (Bakersfield, CA; FEI #3004391505) fields in Bakersfield, CA and Holtville, CA fields. The investigations were coordinated through CFSAN Office of Compliance and Office of Food Safety.

## Laboratory

A total of 113 samples were collected by FDA as part of this outbreak investigation. One hundred three samples were negative. Ten samples were positive for *Salmonella*.

Sysco (b)(4)

ORA Investigators from four ORA HAF Divisions [1E (NYK, NWE), 3W (DAL), 4W (DEN), 6W (SEA)] collected a total of 62 onions samples from (b) (4)



Twenty samples were analyzed at Northeast Food and Feed Laboratory (NFFL). Eighteen samples were analyzed at Pacific Southwest Food and Field Laboratory (PSFFL). Twenty-four samples were analyzed at Denver Laboratory (DENL).

The 62 samples collected from the Sysco (b)(4) were reported negative.

Thomson International Inc. (Bakersfield, CA) Investigations

During the inspection conducted by ORA HAF5W and the California Department of Food and Agriculture at Thomson International Inc. (Bakersfield, CA), three environmental (#1145759, 1145760, 1145761) samples and one scat sample (#1141449) were collected. Samples were analyzed at PSFFL and reported negative for *Salmonella*.

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Investigators collected twenty-two samples during the investigation conducted by ORA PSN at Thomson international Inc. (Bakersfield, CA). Fourteen onion samples (#1145947, 1145948, 1145625-29, 1145955, 1145956, 1146412-1146416), four water samples (#1145623, 1145624, 1145951, 1145953), one scat sample (#1145949) and three sediment samples (#1145950, 1145952, 1145954) were collected. The twenty-two samples were analyzed at NFFL and all were negative for *Salmonella*.

ORA PSN Investigators collected twenty-five samples during the investigation at the Thomson International, Inc (Bakersfield, CA) growing areas in Holtville, CA. Three environmental (#1137802, 1137803, 1137804) and 22 investigational [7 ultra-filtration water (#1146713, 1146714, 1146757, 1146791, 1146793, 1146796, 1146797), 2 grab water (#1146717, 1146753), 1 drag swab (1091981), 8 sediment (#1146712, 1146715, 1146716, 1146754-1146756, 1146792, 1146794), 3 soil/scat (1037805, 1146795, 1091980), onion wrappings (#1091982)] samples were collected. The seven water ultra-filtration samples were analyzed by CFSAN ORS. Eight of the twenty-five samples were analyzed at NFFL and the remaining ten samples were analyzed by PSFFL.

A total of 51 samples were collected during the investigations at Thomson International Inc. at Bakersfield, CA and Holtville, CA. Ten samples were positive for *Salmonella* and were collected from the Imperial Irrigation District areas surrounding the Thomson International Inc. fields in Holtville, CA. A summary of the positive samples and serotypes are included below:

- 4 sediment samples
  - #1146715 (S. Newport\*; S. IIIa 53:z4,z23:-)
  - #1146716 (S. Oranienburg\*\*, S. Muenchen; Illa 41:z4,z23:-; Illa 53:z4,z23:-)
  - #1146754 (S. Newport\*, S. Montevideo)
  - #1146755 (S. Montevideo)
- 5 ultrafiltration water samples
  - #1146713 (S. Newport\*)
  - #1146714 (S. Newport\*, S. Montevideo, S. enterica subspecies VI 44:z36[z38]:-)
  - o #1146757 (S. Newport\*, S. Montevideo, S. Thompson)
  - #1146791 (S. Newport\*, S. Braenderup, S. Montevideo, S. Senftenberg, S. Thompson, S. Wangata)
  - #1146797 (S. Anatum, S. Taksony, S. Tennessee)
- 1 scat sample
  - o #1146795 (*S.* IIIa 41:z4,z23:-)

- \* Does not match outbreak strain of S. Newport
- \*\* WGS unresolved due to abnormal genome size, sequence ran twice

### WGS Analysis

A total of the 141 isolates were WGS analyzed from the ten positive samples. One isolate from sample #1146716 had an unresolved WGS analysis due to an abnormal genome size (~5.9 Mb). The remaining 140 isolates were found to belong to possibly 17 different *Salmonella* strains. Although *S.* Newport was isolated from six of the ten positive samples, none of the isolates were genetically related to the outbreak strain.

Of note, isolates from one sediment sample were genetically identical to one another, representing the same strain. It's possible that this strain was the same strain that caused the alfalfa sprout outbreak in 2016 (1601MLJJ6-1).

Additionally, isolates from a different sediment sample were genetically related to each other and likely match clinical isolates from the 2018 sprout outbreak 1801MLJIX-1. Both the 2016 and 2018 sprouts outbreaks identified seed suppliers in or nearby Holtville, CA as firms of interest.

The FDA sample tracker and final WGS report is available on EON # 432687.

## **Product/Firm Actions/Firm Events**

On 7/30/20, Sysco (b)(4) , TX) initiated a recall of Imperial Fresh brand red onions imported into Canada from the US and distributed in Western Canada through the following Sysco locations: (b)4) . The onions were supplied by Thomson International, Inc (Bakersfield, CA).

On 7/31/20, Thomson International Inc. ceased operations at their Bakersfield, California facility and agreed to voluntarily recall onions. The recall was initiated on 8/1/20. Red, yellow, white, and sweet yellow onions produced by Thomson International and shipped from 5/1/20 through 8/1/20 were subject to recall.

As a result of the Thomson International Inc (Bakersfield, CA) recall, multiple firms initiated downstream recalls or posted notices on their respective websites including: Emerald Fruit & Produce Inc. (Eugene, OR), Giant Eagle (Pittsburgh, PA), Taylor Farms (Dallas, TX), Walmart (Bentonville, AR), Food Lion (Salisbury, NC), Publix Super Markets (Lakeland, FL), The Kroger Co. & subsidiaries [Smith's Food & Drug, Fry's Food Stores, Fred Meyer Stores, Kroger Delta Division, Kroger Mid Atlantic]

(Cincinnati, OH), Progressive Produce LLC (La Mirada, CA), Spokane Produce (Spokane, WA), Hello Fresh (New York, NY), Imperfect Produce (San Francisco, CA).

FDA created a majors recall page to track downstream recalls.

## **COMMUNICATIONS**

In the course of the investigation, firm calls were held with Sysco Merchandising and Supply (Houston, TX), Thomson International Inc. (Bakersfield, CA) and Onions 52 (Syracuse, UT) to discuss the outbreak, public communication and product actions.

FDA, CDC, PHAC and CFIA held an Industry Call on 7/31/20 to discuss public communications.

Thomson International Inc. (Bakersfield, CA) issued a <u>press release</u> for their recall on 8/1/20.

FDA issued <u>public communications</u> regarding this outbreak on 7/31/20. Subsequent updates were made on 7/31/20, 8/3/20, 8/7/20, 8/11/20, 8/13/20, 8/18/20, 9/1/20, 10/8/20.

CDC issued <u>public communications</u> regarding this outbreak on 7/24/20. Subsequent updates were made on 7/221/20, 7/24/20, 7/31/20, 8/3/20, 8/7/20, 8/18/20, 9/1/20, 10/8/20.

On 8/5/20, USDA FSIS issued a <u>Public Health Alert</u> regarding the recall of RTE meat and poultry products that contained recalled onions.

The Public Health Agency of Canada issued a <u>Public Health Notice</u> regarding this outbreak on 7/24/20. The Public Health notice was further updated on 7/30, 8/2/20, 8/7/20, 8/14/20, 8/21/20, 8/31/20, 9/14/20, 10/1/20.

A Recall Notice related to Sysco (b)4, TX) was issued by CFIA on 7/30/20.

CFIA issued a <u>Recall Notice</u> for the Thomson International Inc. (Bakersfield, CA) recall on 8/1/20.

## **CONCLUSION**

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As of 10/5/20, a total of 1132 illnesses were reported from 48 states, including 167 hospitalizations. A traceback investigation identified Thomson International Inc. (Bakersfield, CA) as the source of red onions to ten US POS where ill people reported eating prior to becoming ill. A total of sixty-two product samples were collected from (b) (4) Sysco Distribution Centers. Fifty-one samples were collected from investigations at Thomson International Inc facility and fields in Bakersfield, CA and Holtville, CA were collected. Of the total 113 samples collected, ten samples were reported positive for *Salmonella* but did not match the outbreak strain. Thomson International Inc. Bakersfield, CA) initiated a recall of red, white, yellow and sweet yellow onions on 8/1/20. Based on the epidemiologic and traceback evidence, red onions were confirmed as the vehicle of this *Salmonella* Newport outbreak.

### **ACKNOWLEDGEMENTS**

CORE would like to acknowledge the work of ORA HAF5W, ORA Produce Safety Network, California Department of Public Health, and the California Department of Food and Agriculture for mobilizing and initiating the investigations at Thomson International Inc. quickly which contributed directly to the outbreak investigation. Additionally, we would like to acknowledge the laboratory staff within ORA's Pacific Southwest Food and Feed Laboratory and Northeast Food and Feed Laboratory for analyzing the samples collected during the investigations at Thomson International Inc. Many thanks to the State Partners in Arizona, California, Maryland, Michigan, Minnesota, Montana, North Dakota, Oregon and Wyoming that collected traceback records for the numerous subclusters identified. Your contributions to this outbreak investigation are appreciated.

## **INCIDENT COORDINATION GROUP**

# <u>Incident Group List - Salmonella Newport/ Red Onion/ Jul 2020</u> Coordinated Outbreak Response and Evaluation Network

Signals & Surveillance: LCDR Tyann Blessington

Response: Response Team 3

Lead Coordinator: Evelyn Pereira
Operations: LCDR Matt Doyle
Planning: Stranjae' Ivory

Outbreak Evaluation: Marie Armstrong Communications: Corinne Newhart

Senior Leadership

# Office of Regulatory Affairs (ORA)

## **Human and Animal Food East**

Division I - NYK-DO (New York),	Kim Langello; Nikki Vaught
NWE-DO (New England)	
Division II - BLT-DO	LCDR Valeria Moore, Judith Paterson, William
(Baltimore), PHI-DO	Muszynski
(Philadelphia), NWJ-DO (New	
Jersey)	
Division III – ATL-DO (Atlanta)	Wilbur Huggins
Division IV - FLA-DO (Florida),	Nelson Venerio, Marianela Aponte Cruz
SJN-DO (San Juan)	·
Division V - CIN-DO	Brenda Zimmer, Lindsay Bertling
(Cincinnati), NOL-DO (New	
Orleans)	
Division VI - CHI-DO (Chicago),	Joseph Cooper
DET-DO (Detroit)	
<b>Human and Animal Food Wes</b>	t
Division I – MIN-DO	Heidi DeBeck
(Minneapolis)	Douglas (Doug) Snyder
Division II – KAN-DO (Kansas	Erin Dugan
City)	
Division III - DAL-DO (Dallas)	Jane Broussard,
Division IV – DEN-DO (Denver)	CDR Holly Miller
Division V – SAN-DO (San	Hermie Francisco, Nicole Yuen
Francisco), LOS-DO (Los	
Angeles)	
Division VI – SEA-DO (Seattle)	LCDR Kelsey Volkman
ORA Headquarters	
Office of Human and Animal	Kimberly Livsey, James (Chris) Yee
Food Operations - Senior ERC	
Division of Domestic Human	Linda Stewart, Nicole Clausen, Larry Stringer
and Animal Foods Operations	
Produce Safety Network (PSN)	CDR Brittany Nork, Gerald Bromley, Brandi
	McGrady
Division of Import Operations	Jeffery Hilgendorf
Office of Benedal C	Walana Kanaana
Office of Regulatory Science	Yelena Karaseva

	Terri McConnell
	Darcy Brillhart
Office of Strategic Planning and	Burey Brilliare
Operational Policy - Recalls	
Branch	
	Jason Cornell
Office of Global Policy and	
Strategy	
Latin America Office	
Office of Criminal	Steven Li
Investigations	
Center for Food Safety and A	
Office of Compliance	CFSAN OC RCRT11
Office of Food Safety	Mary Tijerina, Cecilia (Maria) Crowley, Patricia
	Homola
	Kruti Ravaliya, Stephen Hughes
International Affairs Staff	CAPT Teresa Fox, Jeffery Read
Office of Analytics and	Yan Luo
Outreach	
Office of Regulatory Science	Rebecca Bell; Hua Wang; Thomas Hammack
Division of Produce Safety	Kurt Nolte
Office of the Center Director	Mickey Parish
Office of the Commissioner	
Office of Chief Counsel	Alexandra Jabs
Office of Emergency Operations	Russell Zablan
<b>Centers for Disease Control a</b>	
Division of Foodborne,	CDR Laura Gieraltowski, Kane Patel, Zachary
Waterborne, & Environmental	McCormic, Krystalyn B Martin, Colin A
Diseases - Outbreak Response	Schwensohn,
and Prevention Branch (ORPB)	Kenai McFadden, Lauren Stevenson, CDR Matthew
	Wise
<b>US Department of Agriculture</b>	
Food Safety and Inspection	LCDR Jennifer Freiman
Service	LCDR Andrea Cote
Canada	
Canadian Food Inspection	Robin Atkinson, Ken Marcynuk, Lorraine Haskins,
Agency	Leah Isaac
3 - 1 - 7	
Public Health Agency of Canada	Joyce Cheng
<u> </u>	

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State Partners	
Alabama (AL)	Montana (MT)
Alaska (AK)	Nebraska (NE)
Arizona (AZ)	New Hampshire (NH)
Arkansas (AR)	New Jersey (NJ)
California (CA)	New Mexico (NM)
Colorado (CO)	New York (NY)
Connecticut (CT)	Nevada (NV)
Delaware (DE)	North Carolina (NC)
Florida (FL)	North Dakota (ND)
Georgia (GA)	Ohio (OH)
Hawaii (HI)	Oklahoma (OK)
Idaho (ID)	Oregon (OR)
Illinois (IL)	Pennsylvania (PA)
Indiana (IN)	Rhode Island (RI)
Iowa (IA)	South Carolina (SC)
Kansas (KS)	South Dakota (SD)
Kentucky (KY)	Tennessee (TN)
Maine (ME)	Texas (TX)
Maryland (MD)	Utah (UT)
Massachusetts (MA)	Virginia (VA)
Michigan (MI)	Washington (WA)
Minnesota (MN)	West Virginia (WV)
Mississippi (MS)	Wisconsin (WI)
Missouri (MO)	Wyoming (WY)

### **SUPPORTING DOCUMENTS**

- 1. CDC Line list
- 2. WGS Tree
- 3. CORE Sample Spreadsheet
- 4. Traceback Diagram
- 5. Traceback Timeline
- 6. Incident Package
- 7. Incident Data Form

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Salmonella Newport (2007MLJJP-1)/ Unknown/ Jul 2020

Date(s):

Type of Incident: CORE Signals Districts Involved:

Product Centers: CFSAN RRT Involved:

Qualifier: Foodborne Illness Notification Source: CDC

#### Description

On 7/10/2020, CDC notified PulseNet users of a national cluster of Salmonella Newport illnesses. The cluster has rapidly expanded and as of 7/21/2020, there are 134 cases across 16 states: CA (3), IA (3), IL (1), MI (13), MN (3), MO (2), MT (11), NC (3), OH (5), OR (42), SD (8), TN (1), UT (28), WA (1), WI (1), WY (9). Most illnesses are geographically focused in the central, midwestern, and western states; however, recently illnesses have been identified in southeast states of NC and TN. Isolation dates range from 6/20/2020 to 7/11/2020 and onset dates (n=42) range from 6/19/2020 to 7/7/2020. The lag time is 16 days and the outbreak is considered ongoing. The cases range in age from two to 92 years, with a median age of 40 years and 55% of cases are female. There have been 24 hospitalizations and no deaths. Seven of 68 cases have self-identified as having Hispanic/Latino ethnicity.

Isolates from all cases are highly related to each other and are within 0-4 alleles and 0-6 SNPs. Additionally, Canada health authorities report one clinical isolate matching the genetic sequence of this cluster. This cluster is related by five alleles or 11 SNPs to isolates from the historical cluster 1509MLJJP-1, which closed without an identified vehicle. NCBI's Pathogen Detection Pipeline identified historical clinical isolates from the United Kingdom and CA almond isolates (raw almond samples collected in 2016 and 2017) are related within 14 SNPs from this cluster. The nut samples were collected under a blinded sampling assignment with a contract laboratory.

CDC hosted States Calls on 7/15 and 7/20 and cases reported multiple common exposures including, fresh produce (tomatoes, cilantro, onions, and leafy greens), eggs, cheese, beef, chicken, and pork. Tree nuts were rarely reported (three of 25 cases). State investigators decided to interview a select few existing and new cases with a modified National Hypothesis Generating Questionnaire (NHGQ). The only food items that were significant (a =0.05) when compared to the FoodNet Population Survey were cilantro and leafy greens. Cases across several states reported consuming foods from Mexican-style and sandwich-style restaurants. Nationally, 6 cases reported Subway, 3 reported Jersey Mike's, and two reported Jimmy John's.

Eight restaurant and facility subclusters have been identified in CA and OR.

The California Department of Public Health is investigating five Mexican-style restaurant sub-clusters all in the Northern CA region and all part of a larger Salmonella serogroup C outbreak investigation. This investigation involves 38 cases and 35 cases are pending WGS sequencing (so at this time, it is unknown if these are related by WGS or epi-linked to the larger Newport cluster 2007MLJJP-1). All CA cases in this cluster are from northern CA and most are in the San Francisco Bay area. An additional 10 Salmonella illnesses from Central and Southern California have not been added to this cluster. Most cases reported consuming fresh produce as part of their meal or as an ingredient in salsa and pico de gallo. State investigators have requested the restaurants provide lists of ingredients (including dried spices and seasonings) used to make pico de gallo, salsas, and guacamole. Invoices for produce (including cilantro and tomatoes) have been requested for all restaurants. Cilantro and tomatoes are items of greatest interest for their state investigation. Oregon Health Authority is investigating 3 sub-clusters; 2 are associated with restaurants (Mexican-style and Subway) and the 3th is associated with an assisted living center.

Sub-clusters identified in the Salmonella Newport (2007MLJJP-1) investigation. (b) (4)

### (b)(4) ase 1:21-cv-01609-JLT-CDB Document 153 Filed 06/04/24 Page 40 of 196

8. Subway (various locations) (OR-03)

No single suspect vehicle has been identified; however, CDC believes the vehicle is likely an FDA-regulated food product and may possibly be tomatoes, cilantro, onions, or peppers. Supplier review and traceback efforts may be able to aid the investigation by identifying common suppliers and narrowing down the items of interest.

CDC will be issuing an investigational notice about this investigation.

On Tuesday, 7/21/2020, CORE Signals transferred this incident to CORE Response Team 3 based on the following rationale:

- 1) This is a rapidly expanding multi-state outbreak likely associated with a FDA-regulated product; items of greatest interest include tomatoes, cilantro, onions, or peppers.
- 2) Response coordination for traceback, sampling, product and firm actions, and communication is needed

Surveillance Information / Epi				_			
Pathogen/Contaminant:		cal - Bacteri ella Newpor		Serotype:			
Total Cases:	134	Confirm	red:	Hospitalized:	24	Deaths:	
Location/Number of Cases:				1), MI (13), MN (3), N ), TN (1), UT (28), W		MT (11), NC (3), OH	
Age Range:		2-92	,	% Female:		55	
Median Age:		40		Animal/Human:			
Date of First Exposure:				Date of Last Expos	sure:		
Date of First Onset:		06/19/20	20	Date of Last Onset		07/07/2020	
Date of First Isolation:		06/20/20		Date of Last Isolat		07/11/2020	
PFGE Pattern ID:				PulseNet Cluster I	D:	2007MLJJP-1	
PFGE Pattern Frequency:				Serotype Frequenc	v:		
MLVA pattern/Frequency:				Historical Pattern Information:			
Complaint #		Compla	Complaint Details				
D.E. ID.				I M. IW I D	0		
Pet Food Reports?				MedWatch Report	S?		
Vehicle / Product							
Product Category:							
Product Name:	Unknov	wn					
Product Description:							
Food Safety Code:							
Vehicle Status:							
Product Actions:							
Product Origin:	<u> </u>						
Laboratory Information				_			
	nber of Posit ples:						
Investigations / Inspections							
T 1 1 7 4 4							
Traceback Investigations							
Communications							
FDA Communication Dates:							
Firm Proce Pologe Dates:							

Release Dates - Other Sources:

Communications 1:21-cv-01609	9-JLT-CDB	Document 153	Filed 06/04/24	Page 41 of 196	
Situation Report Dates:				•	

Other Information	
Signals Evaluation:	
Signals Evaluation Description:	
Response Start Date:	07/21/2020
Response End Date:	
FDA End Date:	
Post-Response Activity:	
Post-Response Activities	
Description:	

#### Case 1:21-cv-01609-JLT-CDB Document 153 Filed 06/04/24 Page 42 of 196 Date(s):

Salmonella Newport/Red Onion/Jul 2020

Type of Incident: CORE Signals **Product Centers: CFSAN** Qualifier: Foodborne Illness Districts Involved: LOS-DO, SAN-DORRT Involved: Notification Source: CDC

### Description

On 7/13/20, after receiving notification from PulseNet, FDA CORE Signals began evaluating a cluster of 134 Salmonella Newport illnesses from 16 states [CA (3), IA (3), IL (1), MI (13), MN (3), MO (2), MT (11), NC (3), OH (5), OR (42), SD (8), TN (1), UT (28), WA (1), WI (1), WY (9)]. Canadian health authorities reported one clinical isolate matching the genetic sequence of this cluster. At the time of transfer, epidemiologic information was unable to identify a single suspect vehicle. Vehicles of interest included: tomatoes, cilantro, onions, and peppers. The traceback investigation was narrowed to red onions based on the findings of the Canadian outbreak investigation which identified red onions from Thomson International Inc. (Bakersfield, CA) as the likely source of Canadian illnesses. FDA's traceback investigation identified Thomson International Inc. (Bakersfield, CA) as the source of red onions to ten US POS where ill people reported exposure prior to becoming ill. On 8/1/20, Thomson International Inc. (Bakersfield, CA) initiated a recall of red, yellow, white, and sweet yellow onions produced by Thomson International. A total of 113 samples were collected by FDA during investigations at Thomson International, Inc (Bakersfield, CA) or targeted sampling at distribution centers. Ten samples (4 sediment, 1 scat and 5 ultrafiltration water samples) were reported positive for Salmonella but did not match the outbreak strain. The vehicle for this outbreak was confirmed as red onions based on the epidemiologic and traceback evidence. At the conclusion of the CORE Response phase, a total of 1132 cases in 48 states [AK (25), AL (2), AR (2), AZ (39), CA (128), CO (32), CT (2), DE (2), FL (8), GA (11), HI (3), ID (43), IL (54), IN (4), IA (31), KS (3), KY (3), ME (6), MA (2), MD (7), MI (47), MN (19), MO (11), MS (5), MT (72), NC (6), ND (9), NE (10), NH (1), NJ (12), NM (3), NV (14), NY (14), OH (11), OK (1), OR (110), PA (27), RI (3), SC (1), SD (24), TN (7), TX (2), UT (115), VA (10), WA (150), WI (11), WV (3), WY (27)] were associated with this outbreak.

Surveillance Information / Er	oidemiology			
Pathogen/Contaminant: Biologic		al - Bacteria / ella Newport	Serotype:	
Total Cases: 1132		Confirmed:	Hospitalized:	167 <b>Deaths:</b> 0
Location/Number of Cases:	ion/Number of Cases:  AK (25), AL (2), AR FL (8), GA (11), HI ( (3), ME (6), MA (2), (72), NC (6), ND (9), (14), OH (11), OK (1)			CO (32), CT (2), DE (2), (4), IA (31), KS (3), KY 19), MO (11), MS (5), MT 2), NM (3), NV (14), NY I (3), SC (1), SD (24), TN VI (11), WV (3), WY (27)
Age Range:		5 days -102	% Female:	58
Median Age:		41	Animal/Human:	
Date of First Exposure:			Date of Last Exposure	:
Date of First Onset:		06/19/2020	Date of Last Onset:	09/11/2020
Date of First Isolation:		06/20/2020	Date of Last Isolation:	09/14/2020
PFGE Pattern ID:			PulseNet Cluster ID:	2007MLJJP-1
PFGE Pattern Frequency:		Common	Serotype Frequency:	Common
MLVA pattern/Frequency:			Historical Pattern Information:	
Complaint # Complaint Details				
Pet Food Reports?			MedWatch Reports?	

Vehicle / Product		
Product Category:	Produce	
Product Name:	red onion	
Product Description:	red onion	
Food Safety Code:		
Vehicle Status:	Lab Confirmed, Epi Confirmed, Traceback Confirmed	

Vehicle / Profice 1:21-cv-01609	9-JLT-CDB	Document 153	Filed 06/04/24	Page 43 of 196	
Product Actions:	Recalls				
Product Origin:					

Laboratory Informa	ation						
Total Number of	113 Number of Posi	tive 10 Nur	nber of Pending/CRO	0 Number o	of Negative		
Samples:	Samples:		noles:	Samples:			
Positive Sample Number	Date of Collection	Sample Source	Sample Type	Sample Collected By	Sample Analyzed By		
1146754	08/21/2020	Soil/sediment:	Environmental	ORA PSN	NFFL		
Laboratory Conclusion		Sample Descripti					
•	evideo; Does not match	This is a sediment sample					
the outbreak strain	, 	<u> </u>	1				
D:// C1.	D-4 f C-11 4	C1- C	C1 - T	C 1 -	C 1 -		
Positive Sample Number	Date of Collection	Sample Source	Sample Type	Sample Collected By	Sample Analyzed By		
1146755	08/21/2020	Soil/sediment:	Environmental	ORA PSN	NFFL		
Laboratory Conclusion		1		TORAPSN	LINEEL		
•		Sample Descripti					
strain	not match the outbreak	This is a sedimen	t sample				
				Ια .	Ια .		
Positive Sample	Date of Collection	Sample Source	Sample Type	Sample	Sample		
<u>Number</u> 1146715	00/21/2020	C - '1/ 1'	English was at al	Collected By	Analyzed By		
	08/21/2020	Soil/sediment:	Environmental	ORA PSN	NFFL		
Laboratory Conclusion		Sample Descripti					
S. Newport; S. IIIa 53		This is a soil/sedi	ment sample.				
match the outbreak st	rain	1					
Positive Sample	Date of Collection	Sample Source	Sample Type	Sample	Sample		
		bumple boulet	Dampie Type	Bampic	Dumpie		
		Sumple Source	Sumple Type	Collected By			
Number	08/21/2020	Soil/sediment;	Environmental				
Number 1146716 Laboratory Conclusio	on	Soil/sediment; Sample Descripti	Environmental on	Collected By	Analyzed By		
Number 1146716 Laboratory Conclusio S. Oranienburg, S. M	on	Soil/sediment;	Environmental on	Collected By	Analyzed By		
Number 1146716 Laboratory Conclusion S. Oranienburg, S. M z23:-; IIIa 53:z4,z23:- outbreak strain Positive Sample	on Juenchen; IIIa 41:z4,	Soil/sediment; Sample Descripti	Environmental on	Collected By ORA PSN  Sample	Analyzed By NFFL Sample		
Number 1146716 Laboratory Conclusion S. Oranienburg, S. M z23:-; IIIa 53:z4,z23:- outbreak strain Positive Sample Number	Juenchen; IIIa 41:z4, -; Does not match the  Date of Collection	Soil/sediment: Sample Descripti This is a soil/sedi	Environmental on ment sample  Sample Type	Collected By ORA PSN  Sample Collected By	Analyzed By NFFL Sample Analyzed By		
Number 1146716 Laboratory Conclusion S. Oranienburg, S. M z23:-; IIIa 53:z4,z23:- butbreak strain Positive Sample Number	fuenchen; IIIa 41:z4, -; Does not match the	Soil/sediment: Sample Descripti This is a soil/sedi  Sample Source scat/ bird	Environmental on ment sample	Collected By ORA PSN  Sample	Analyzed By NFFL Sample		
Number 1146716 Laboratory Conclusion S. Oranienburg, S. M z23:-; IIIa 53:z4,z23:- outbreak strain Positive Sample Number 1146795	Date of Collection  08/24/2020	Soil/sediment; Sample Descripti This is a soil/sedi  Sample Source scat/ bird dropping;	Environmental on ment sample  Sample Type Environmental	Collected By ORA PSN  Sample Collected By	Analyzed By NFFL Sample Analyzed By		
Number 1146716 Laboratory Conclusion S. Oranienburg, S. M. z23:-; IIIa 53:z4,z23:- outbreak strain  Positive Sample Number 1146795 Laboratory Conclusion S. IIIa 41:z4,z23:-; Do	Date of Collection  08/24/2020	Soil/sediment: Sample Descripti This is a soil/sedi  Sample Source  scat/ bird dropping: Sample Descripti	Environmental on ment sample  Sample Type Environmental	Collected By ORA PSN  Sample Collected By ORA PSN	Analyzed By NFFL Sample Analyzed By		
Number 1146716 Laboratory Conclusion S. Oranienburg, S. M z23:-; IIIa 53:z4,z23:- outbreak strain  Positive Sample Number 1146795  Laboratory Conclusion S. IIIa 41:z4,z23:-; Deponte to the strain	Date of Collection  08/24/2020  on  oes not match the	Soil/sediment: Sample Descripti This is a soil/sedi  Sample Source scat/ bird dropping: Sample Descripti This is a sample of	Environmental on ment sample  Sample Type Environmental on of scat/bird dropping m	Collected By ORA PSN  Sample Collected By ORA PSN  naterial.	Analyzed By NFFL Sample Analyzed By NFFL		
Number 1146716 Laboratory Conclusion S. Oranienburg, S. M z23:-; IIIa 53:z4,z23:- outbreak strain  Positive Sample Number 1146795  Laboratory Conclusion S. IIIa 41:z4,z23:-; Deputibreak strain  Positive Sample	Date of Collection  08/24/2020	Soil/sediment: Sample Descripti This is a soil/sedi  Sample Source  scat/ bird dropping: Sample Descripti	Environmental on ment sample  Sample Type Environmental on	Sample Collected By ORA PSN  Sample Collected By ORA PSN  naterial.	Analyzed By NFFL  Sample Analyzed By NFFL  Sample		
Number 1146716 Laboratory Conclusion S. Oranienburg, S. M z23:-; IIIa 53:z4,z23:- outbreak strain  Positive Sample Number 1146795 Laboratory Conclusion S. IIIa 41:z4,z23:-; Deput Deput Positive Sample Positive Sample Number  Positive Sample Number	Date of Collection  08/24/2020  on  oes not match the	Soil/sediment: Sample Descripti This is a soil/sedi  Sample Source scat/ bird dropping: Sample Descripti This is a sample of	Environmental on ment sample  Sample Type Environmental on of scat/bird dropping m	Collected By ORA PSN  Sample Collected By ORA PSN  naterial.	Analyzed By NFFL  Sample Analyzed By NFFL  Sample Analyzed By		
Number 1146716 Laboratory Conclusion S. Oranienburg, S. M. z23:-; IIIa 53:z4,z23:- outbreak strain  Positive Sample Number 1146795 Laboratory Conclusion S. IIIa 41:z4,z23:-; Depositive Sample Number Positive Sample Number 1146713	Date of Collection  On One One One One One One One One One O	Soil/sediment: Sample Descripti This is a soil/sedi  Sample Source  scat/ bird dropping: Sample Descripti This is a sample of  Sample Source  Dead End Ultrafiltration	Environmental on ment sample  Sample Type Environmental on of scat/bird dropping m  Sample Type Environmental	Sample Collected By ORA PSN  Sample Collected By ORA PSN  naterial.  Sample Collected By	Analyzed By NFFL Sample Analyzed By NFFL		
Number 1146716 Laboratory Conclusion S. Oranienburg, S. M. 223:-; IIIa 53:z4,z23:- outbreak strain  Positive Sample Number 1146795 Laboratory Conclusion S. IIIa 41:z4,z23:-; Deputbreak strain  Positive Sample Number 1146713 Laboratory Conclusion S. Newport; Does not	Date of Collection  On On Survey of Collection  On O	Soil/sediment: Sample Descripti This is a soil/sedi  Sample Source  scat/ bird dropping: Sample Descripti This is a sample of  Sample Source  Dead End Ultrafiltration Sample Descripti	Environmental on ment sample  Sample Type Environmental on of scat/bird dropping m  Sample Type Environmental	Sample Collected By ORA PSN  Sample Collected By ORA PSN  naterial.  Sample Collected By ORA PSN	Analyzed By NFFL  Sample Analyzed By NFFL  Sample Analyzed By		
Number 1146716 Laboratory Conclusion S. Oranienburg, S. M z23:-; IIIa 53:z4,z23:- outbreak strain  Positive Sample Number 1146795  Laboratory Conclusion S. IIIa 41:z4,z23:-; December and the strain  Positive Sample Number 1146713  Laboratory Conclusion S. Newport; Does not strain  Positive Sample	Date of Collection  On On Survey of Collection  On O	Soil/sediment: Sample Descripti This is a soil/sedi  Sample Source  scat/ bird dropping: Sample Descripti This is a sample of  Sample Source  Dead End Ultrafiltration Sample Descripti	Environmental on ment sample  Sample Type Environmental on of scat/bird dropping m  Sample Type Environmental	Sample Collected By ORA PSN  Sample Collected By ORA PSN  naterial.  Sample Collected By ORA PSN  atterial.	Analyzed By NFFL  Sample Analyzed By NFFL  Sample Analyzed By CFSAN ORS		
Number 1146716 Laboratory Conclusion S. Oranienburg, S. M. z23:-; IIIa 53:z4,z23:- outbreak strain  Positive Sample Number 1146795  Laboratory Conclusion S. IIIa 41:z4,z23:-; December Sample Number 1146713  Laboratory Conclusion S. Newport; Does not strain	Date of Collection  On O	Soil/sediment: Sample Descripti This is a soil/sedi  Sample Source  scat/ bird dropping: Sample Descripti This is a sample of  Sample Source  Dead End Ultrafiltration Sample Descripti This sample inclu	Environmental on ment sample  Sample Type Environmental on of scat/bird dropping m Sample Type Environmental on ides a Hemodialyzer w	Sample Collected By ORA PSN  Sample Collected By ORA PSN  naterial.  Sample Collected By ORA PSN  ater filter	Analyzed By NFFL  Sample Analyzed By NFFL  Sample Analyzed By CFSAN ORS		

S. Newport* Caston subspecies VI 44:z36 match the outbreak st		D B his Deach process in	553 of Failtech OC6 £094/20	4wal <mark>engme44</mark> of	196
Positive Sample Number	Date of Collection	Sample Source	Sample Type	Sample Collected By	Sample Analyzed By
1146757	08/24/2020	Dead End Ultrafiltration	Environmental	ORA PSN	CFSAN ORS
Laboratory Conclusion	on	Sample Description	on		
S. Newport, S. Monte Does not match the o		This sample is a w REXEED 25S.	vater filter sample col	llected using a Her	nodialyzer
Positive Sample Number	Date of Collection	Sample Source	Sample Type	Sample Collected By	Sample Analyzed By
1146791	08/24/2020	Dead End Ultrafiltration	Environmental	ORA PSN	CFSAN ORS
Laboratory Conclusion	on	Sample Description	on		
	derup, S. Montevideo, ompson, S. Wangata; utbreak strain		ample was collected	using a Hemodialy	zer REXEED
Positive Sample Number	Date of Collection	Sample Source	Sample Type	Sample Collected By	Sample Analyzed By
1146797	08/24/2020	Dead End Ultrafiltration	Environmental	ORA PSN	CFSAN ORS
Laboratory Conclusion	on	Sample Description	on		
•	ny, S. Tennessee; Does	1 1	ample was collected	using a Hemodialy	zer REXEED -

Investigations / Inspections					
Firm Name	City	State	Country	FEI	Type
Thomson International, Inc	Bakersfield	CA	·	3004391505	Grower
FACTS No	Start Date	End Date	483	Activity	
12055268	08/03/2020	08/05/2020	No	investigation	
Firm Name	City	State	Country	FEI	Type
Thomson International, Inc	Bakersfield	CA	·	3004391505	Grower
FACTS No	Start Date	End Date	483	Activity	
12055297	08/06/2020	08/27/2020	No	investigation	
	_	_	_		_
Firm Name	City	State	Country	FEI	Type
Thomson International, Inc	Bakersfield	CA	·	3004391505	Grower
FACTS No	Start Date	End Date	483	Activity	
12060391	08/18/2020	08/24/2020	No	investigation	

Traceback Investigations					
Product Traced:	red onion	Traceback Completed By:	FDA		
# of Traceback Legs:	4	Traceback Convergence Identified?	Yes		
Identified Firm Name:	Thomson International Inc.				
Traceback Investigations Description:					

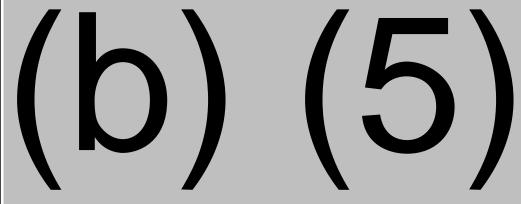
Communications					
FDA Communication Dates:	7/31/2020, 8/3/2020, 8/7/2020, 8/11/2020, 8/13/2020, 8/18/2020, 9/1/2020, 10/8 /2020				

Communication	ee 1:21-cv-0160	9-JL	T-CDB Document 153 Filed 06/04/24 Page 45 of 196			
Firm Press Release Dates: 8/1		8/1/	/2020			
Release Dates -	Other Sources:					
Situation Report						
Communication	Communication Da	te	Communication Details			
Type						
FDA	07/31/2020					
Communications						
Communication I	ink					
https://www.fda.go	ov/food/outbreaks-foo	dborn	ne-illness/outbreak-investigation-salmonella-newport-red-onions-iuly-2020			
Communication	Communication Da	te	Communication Details			
Type						
Firm Press	08/01/2020					
Release						
Communication I	ink					
https://www.fda.go	ov/safety/recalls-marke	et-wit	hdrawals-safety-alerts/thomson-international-inc-conducts-voluntary-recall-red-yellow-			
1 1	ellow-onions-because					

Other Information			
Signals Evaluation:			
Signals Evaluation Description:			
Response Start Date:	07/21/2020		
Response End Date:			
FDA End Date:			
Post-Response Activity:			
Post-Response Activities			
Description:			

1. Incident Name: Salmonella	2. Operational Period: Date From: 9/11/20	Date To: 9/18/20
Newport/Red Onion/Jul 2020	Time From: 1700EDT	Time To: 1700EDT

3. Objective(s):



4. Operational Period Command Emphasis:

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1. Incident Name: Salmonella Newport/Red Onion/Jul 2020

**2. Operational Period:** Date From: 9/11/20 Date To: 9/18/20 Time From: 1700EDT Time To: 1700EDT

#### General Situational Awareness

On 7/10/2020, CDC notified PulseNet users of a national cluster of *Salmonella* Newport illnesses. The cluster has rapidly expanded and as of 7/23/2020, there are 242 cases across 33 states: AK, AZ, CA, IA, ID, IL, IN, MI, MN, MO, MT, NC, ND, NE, NY, OH, OR, SD, TN, UT, VA, WA, WI, WY. Isolation dates range from 6/20/2020 to 7/11/2020 and onset dates range from 6/19/2020 to 7/7/2020. The cases range in age from two to 92 years, with a median age of 40 years and 55% of cases are female. There have been 29 hospitalizations and no deaths. Isolates from all cases are highly related to each other and are within 0-4 alleles and 0-6 SNPs. Additionally, as of 7/23/20, Canada health authorities report six clinical isolates match the genetic sequence of this cluster and red onions are their leading suspect vehicle. NCBI's Pathoger Detection Pipeline identified historical clinical isolates from the United Kingdom and CA almond isolates (raw almond samples collected in 2016 and 2017) are related within 14 SNPs from this cluster. Cases across several states reported consuming foods from Mexican-style and sandwich-style restaurants including Subway. No single suspect vehicle has been identified; however, based on reported food exposures, vehicles of interest include tomatoes, cilantro, onions, or peppers. CDC issued an lowestigation Notice, regarding this incident on 7/21/20. CDC is not recommending that consumers avoid any particular food at this time.

#### Operational Period 1

On 7/24/20, CORE issued an assignment to ORA HAF1E (NWE-DO) for traceback data from Subway Company ((b)(4), CT). The requested documents were received or 7/30/20. CDC issued a case count update and the Public Health Agency of Canada issued a Public Health Noticegarding this outbreak on 7/24/20. On 7/27/20, CORE issued an assignment (eNSpect Assignment #167287) to ORA HAF3W (DAL-DO) for record collection at Sysco (b) (4)

Related records were received on 7/29-7/30/20. CORE issued an assignment (eNSpect Assignment #167509) to ORA HAF4W (DEN-DO) for record collection at Onions 52 Inc (Syracuse, UT) related to the Canadian traceback investigation. Records were received on 7/29/20. Based on preliminary record review, a majority of Sysco locations included in the US traceback investigation received onions from Onions 52. On 7/28/20, CORE requested record collection by ORA HAF6W (SEA-DO) from (b) (4)

(b) (4) the requested documents were received on 7/28/20. A firm call was held with Sysco (b) (4) to discuss the outbreak, public communication and product actions. A firm call with Thomson International Inc. (Bakersfield, CA) and Onions 52 (Syracuse, UT) was held on 7/30/20 to discuss the outbreak, public communication and product actions. Public Health Agency of Canada and the Canadian Food Inspection Agency issue Paublic Health Notice and recall potice to the outbreak and Sysco (b) (4) recall on 7/30/20. As of 7/30/20, FDA and CDC declared red onions as the suspect vehicle for this outbreak. On 7/31/20, CDC reported 508 cases and PHAC reported 114 cases. Additionally, an Industry call was held to inform the industry of public communications.

#### Operational Period 2

On 7/31/20, EDA and CDC issued web posts regarding this outbreak naming Thomson International Inc. (Bakersfield, CA) as the likely source. Thomson International Inc. initiated their recall and issued a press release on 8/1/20. Red, yellow, white, and sweet yellow onions produced by Thomson International and shipped from 5/1/20 through 8/1/20 were subject to recall. The Canadian Food Inspection Agency issued a press release on 8/1/20. The Public Health Agency of Canada issued an updated Public Health Notice on 8/2/20. CORE issued an assignment (FACTS #12055268) to ORA HAF5W for an inspection including record collection and product and environmental sampling at Thomson International and an assignment (FACTS #12055297) to ORA OHAFO Domestic Produce Safety Branch for a root cause investigation, farm investigation and water sampling at Thomson International Inc. on 8/2/2004 and CDC issued updated web posts to include information about the Thomson International Inc recall on 8/3/20. On 8/3/20, FDA provided written responses to (b) (4) regarding traceback investigation questions ORA HAF5W and the California Department of Food and Agriculture (CDFA) began the inspection at Thomson International on 8/3/20. In total, ORA HAF5W completed their investigation and ORA PSN, ORA HAF5W, California Department of Public Health and the California Department of Food and Agriculture began a root cause investigation at Thomson International Inc. on 8/6/20. Two product samples (#1145947, 1145948) of red and white onions, respectively, were collected. On 8/4/20, CORE issued an assignment (eNSpect #169871) to ORA HAF6E (CHI-DO) for record collection at (b) (4)

On 8/5/20, USDA FSIS issued Public Health Alert regarding the recall of RTE meat and poultry products that contained recalled onions. As a result of the Thomson International Inc (Bakersfield, CA) recall, multiple firms have initiated downstream recalls including: Giant Fagle (Pittsburgh, PA), Taylor Farms (Dallas, TX), Malmatt (Bentonville, AR) Food Lian (Salisbury, NC) Public S

#### Operational Period 3

On 8/7/20, EDA and CDC issued updated web posts to include a case count update and downstream recalls. On 8/7/20, Office of Emergency Management provided a man of the Thomson International Inc. (Bakersfield, CA) field locations. On 8/8/2020, ORA PSN collected two water samples (#1145623, 1145624), one sediment sample (#1145950) and one scat sample (#1145949) from Thomson International Inc. On 8/10/20, ORA PSN collected seven onion samples (#1145625-29, 1145956) two water samples (#1145951, 1145953), and two sediment samples (#1145954). Samples #1145760, 1141449, 1145761, 1145947, 1145949 and #1145950 were negative for Salmonella. CORE issued an assignment (eNSpect #170684) to ORA HAF6E (CHI-DO) for record collection at (b) (4) on 8/10/20. On 8/11/20 and 8/13/20, EDA issued an updated web post to include downstream recalls. As a result of the Thomson International Inc (Bakersfield, CA) recall, The Kroger Co. & subsidiaries [Smith's Food & Drug, Eps's Food Stores, Fred Meyer Stores, Kroger Delta Division, Kroger Mid Atlantic] (Cincinnati, Oth.) Progressive Produce LIC (La Mirada, CA), and Spokane Produce (Spokane, WA) have initiated recalls. On 8/13/20, eleven samples (#1145951-1145956, 1145625-1145629) were reported negative. Based on epidemiologic and traceback evidence, red onions have been confirmed as the vehicle for this outbreak. As of 8/14/20, CDC reports 850 illnesses in 47 states.

#### Operational Period 4

On 8/13/20, EDA issued an updated web post to include downstream recalls. On 8/14/20, CFIA issued an updated Recall Noticto include additional downstream recalls. On 8/18/20, EDA and CDC issued updated web posts to include a case count update. On 8/18/20, CORE issued an assignment (FACTS# 12060391) to ORA PSN for an investigation at Thomson International Inc. (Bakersfield, CA) growing fields in Holtville, CA. On 8/20/20, ORA PSN initiated the investigation. To date, three environmental (#1137802, 1137803, 1137804) and 22 investigational [7 ultra-filtration water (#1146713, 1146714, 1146757, 1146793, 1146793, 1146796, 1146797), 2 water grab samples (#1146717, 1146753), 1 drag swab (1091981), 8 sediment (#1146715, 1146715, 1146716, 1146754-1146793, 1146794), 3 soil/scat (1037805, 1146795, 1091980), onion wrappings (#1091982)] samples have been collected as part of the Holtville investigation. To date, eight of these samples (1091982, 1146712, 1137802, 1146717, 1146753, 1146756) are negative; four soil/sediment samples (#1146715, 1146716, 1146754, 1146755) are presumptive positive; thirteen samples are pending. On 8/17/20, HAF5W (SAN) collected five product samples (#1146712-1146716, 1146754, 1146755) are presumptive positive; thirteen samples are pending. On 8/17/20, HAF5W (SAN) collected five product samples (#1146715, 1146716, 1146754, 1146755) are presumptive positive; thirteen samples are pending. On 8/17/20, HAF5W (SAN) collected five product samples (#1146715, 1146716, 1146754, 1146755) are presumptive positive; thirteen samples are pending. On 8/17/20, HAF5W (SAN) collected five product samples (#1146715, 1146716, 1146756, 1146755) are presumptive positive; thirteen samples are pending. On 8/17/20, HAF5W (SAN) collected five product samples (#1146715, 1146716, 1146716, 1146754, 1146755) are presumptive positive; thirteen samples were reported negative. From 8/19/20 and 8/20/20, CORE issued five assignments (FACTS# 12061015, 12061018, 12061168) to four ORA HAF Divisions [1E (NYK, NWE), 3W (DAL), 4W (DEN), 6

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#### Operational Period 5

From 8/24/20 to 8/25/20, ORA HAF4W (DEN) collected twelve product samples (#1146570-1146575, 1146576-1146581) from Sysco (b) (4)

OR 8/25/20, HAF1E (NYK) collected 18 product samples (1137048-1137056, 1137944-1137952) from Sysco (b) (4)

From 8/25/20 to 8/31/20
ORA ORS reported that two product samples (#1134051, 1134052), collected from Sysco (b) (4)

seventeen product samples (#1146562-114656), 1146570-1146581), collected from Sysco (b) (4)

Interproduct samples (#1137946, 1137054- 1137055), collected from Sysco (b) (4)

and five samples (#1146794, 1146792, 1137803-1137805), collected during the investigation at Thomson International Inc. (Bakersfield, CA) growing fields in Holtville, CA, were negative for Salmonella. On 8/28/20, four sediment samples (#1146715, 1146716, 1146754-1146755), collected during the investigation at Thomson International Inc. (Bakersfield, CA) growing fields in Holtville, CA, were confirmed positive for Salmonella. One scat sample (#1146795) was reported as CRO. On 8/27/20, CFSAN ORS reported that two ultrafiltration water samples (#1146713-1146714), collected by ORA PSN during the investigation at Thomson International Inc. (Bakersfield, CA) growing fields in Holtville, CA, were CRO; on 8/31/20, the samples were confirmed positive for Salmonella. In summary, a total of 113 samples have been collected in response to this outbreak: Six (4 sediment; 2 ultrafiltration water) samples are pending. On 8/24/20, the investigation at Thomson International, Inc. in Holtville, CA was closed out and on 8/27/20, the investigation a Thomson International, Inc. in Bakersfield, CA was closed out. As of 9/1/20, CDC reports 1,023 illnesses in 47 states.

#### Operational Period 6

On 9/2/20, ORA ORS reported that fourteen product samples (#1137944, 1137945, 1137947-1137952, 1137049-1137053, 1137056) were negative for **Salmonella**. One product sample (#1137048) was reported as CRO but on 9/8/20, the sample was reported negative. Additional analysis of two environmental samples (#1146754, 1146755), previously reported as positive for **Salmonella** but did not match the outbreak strain by WGS, identified additional potential isolates. Identification, serotyping and WGS are pending. On 9/4/20, ORA ORS reported that one scat sample (#1146795) was confirmed positive for **Salmonella**; Serotyping and WGS pending. On 9/8/20, CFSAN OAO reported that two **Salmonella** positive ultrafiltration water samples (#1146713, 1146714) did not match the outbreak strain by WGS. On 9/8/20, three ultrafiltration water samples (#1146793, 1146796) were negative. Serotyping and WGS are pending. In summary, as of 9/11/20 a total of 113 samples have been collected and analyzed for this investigation. Ten samples are positive for **Salmonella**. WGS for six of the samples (4 sediment, 2 ultrafiltration water) show that the isolates do not match the outbreak strain. WGS is pending for four samples (1 scat, 3 ultrafiltration water). As of 9/11/20, CDC reports 1,095 illnesses in 48 states.

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1. Incident Name: Salmonella Newport/Red Onion/Jul 2020	2. Operational Period: Date From: 9/11/20 Date To: 9/18/20 Time From: 1700EDT Time To: 1700EDT
☐ ICS 203 ☐ Map/Chart	ed below are included in this Incident Action Plan):  Other Attachments:  cast/Tides/Currents
7. Prepared by: Name: Stranjae' Ivory	Position/Title: Planning Chief Signature: Stranjae' Ivory
8. Approved by Incident Commander:	Name: <u>Evelyn Pereira</u> Signature: <u>Evelyn Pereira</u>
ICS 202 IAP Page	Date/Time: 11 September 2020 1436

Updated by FDA 2/2011

## Salmonella Newport Cluster 2007MLJJP-1

July 24, 2020

### Cases of Salmonella Newport in cluster 2007 MLJJP-1 as of July 24, 2020

State	No. of cases
Alaska	6
Arizona	13
California	10
Delware	1
Florida	1
lowa	10
Idaho	5
Illinois	9
Indiana	1
Kentucky	1
Maine	2
Michigan	15
Minnesota	7
Missouri	3
Montana	11
North Carolina	3
North Dakota	3
Nebraska	5
Nevada	2
New York	1
Ohio	6
Oregon	51
South Dakota	13
Tennessee	2
Texas	1
Utah	43
Virginia	3
Washington	1
Wisconsin	2
Wyoming	11
Total	242

- Case definition:
  - Infection with Salmonella Newport and
  - with isolate matching by cgMLST within 0-4 alleles
  - with illness onset during 6/19/2020–present
- 242 cases from 30 states
- Isolation dates:6/20/2020 –7/15/2020
- Reported onset dates (n=118): 6/19/2020 -7/11/2020

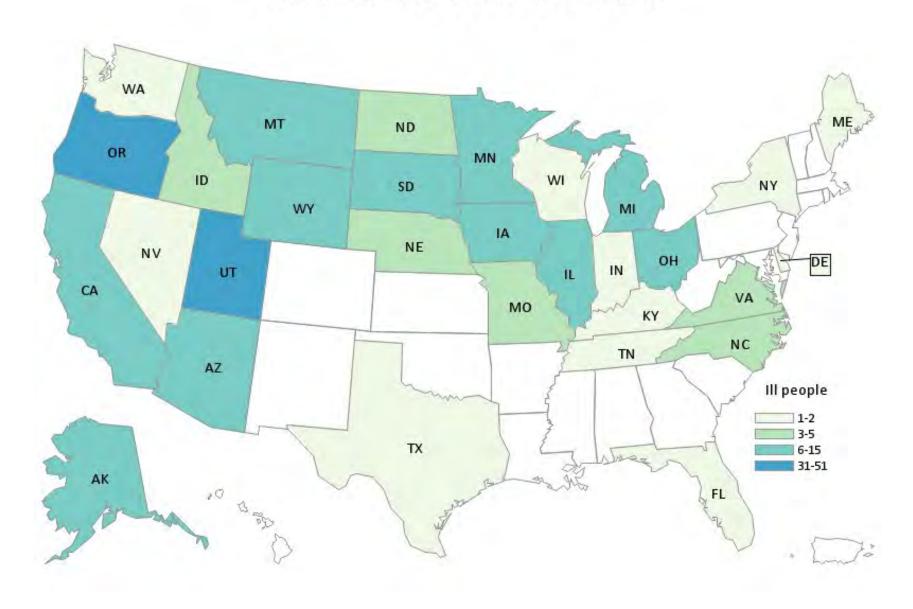
**Table 2.** Patient demographics in *Salmonella*Newport cluster 2007MLJJP-1, as of July 24, 2020

**Table 3.** Patient outcomes in *Salmonella*Newport cluster 2007MLJJP-1, as of July 24, 2020

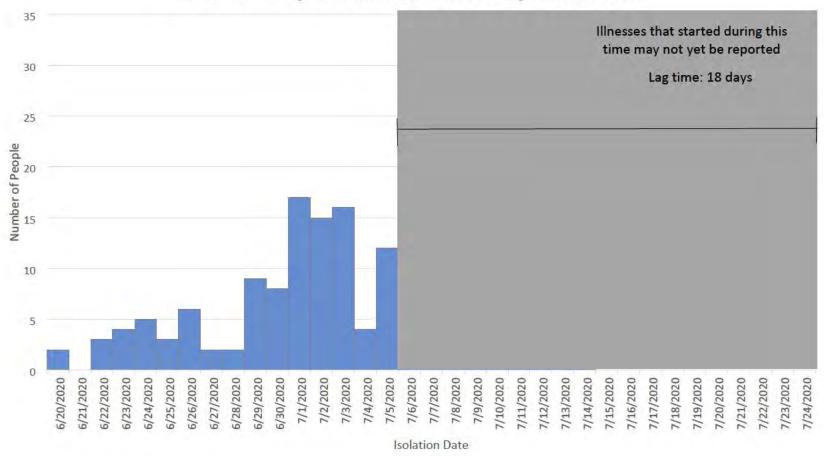
Demographics	
Age range (median), (n=241)	0-92 (40)
Age categories in years (n=241)	n (%)
<5	4 (2)
5 to 17	13 (5)
18 to 59	166 (69)
≥60	57 (24)
Sex (n=238)	n(%)
Female	127 (53)

Outcomes	n (%)
Hospitalized (n=123)	33 (27)
Died (n=128)	0 (0)

## Persons infected with the outbreak strain of Salmonella Newport, Case 1:21-cv-01609-JLT-CDB Document 153 Filed 06/04/24. Page 53 of 196 by state of residence, as of July 23, 2020 (n=242)



## People infected with the outbreak strain of Salmonella Newport by date of sample isolation\* as of July 24th, 2020



### **WGS Information on Cluster**

- All cases highly related at 0-4 alleles by cgMLST.
- Cluster is related (5 alleles) to 2 isolates from the historical cluster 1509MLJJP-1 (no vehicle identified)
- NCBI Pathogen Detection Pipeline shows international clinical matches from the UK and almond isolate matches within 14 SNPs.
- Canada reports matches by sequencing
- Cluster 2007MLJJP-1 is >2,000 alleles apart from 2006MLJJP-1

### Exposures from SEDRIC as of July 24, 2020

- Leafy greens (45/78) [p-value = 0.127]
- Cilantro (27/78) [p-value = 0.0001]
- Onions (40/78) [p-value = 0.999]
- Tomatoes (55/78) [p-value = 0.034]
- Chicken (56/78) [p-value = 0.411]
- Ground beef (50/78) [p-value < 0.001]</li>
- Other beef (23/78) [p-value = 0.999]
- Almonds (6/54) [p-value= 0.999]
- \*all the above includes Yes + maybe
- Grocery stores: 23/102 Walmart, 21/102
   Costco, 19/102 Smith's, 14/102 Fred
   Meyers, 9/102 HyVee
- Mexican style restaurants: 33/95
- Sandwich restaurants: 10/95 Subway,
   5/95 Jersey Mike's, 3/95 Jimmy John's

- CA reports 5 Mexican-style restaurant subclusters
- OR reporting various type of subclusters
  - Mexican-style restaurant
  - Nursing home
  - Various Subways
- WY Mexican-style restaurant subcluster
- MT Local restaurant subcluster
- MI 4 Mexican style restaurant subclusters, 1 other restaurant subcluster

### Exposures from HGQ as of July 24, 2020

- 8/16 ground beef
- 9/16 other beef
- 13/16 chicken
  - No subclustersidentified commonalities among meat items
- 14/16 leafy greens
  - Romaine most common (7)
- 6/16 cilantro
- 13/16 tomatoes
- 9/16 onions
  - +3 likely onion-containing dishes

## Salmonella Newport Cluster 2007MLJJP-1

July 29, 2020

State	No of cases 1
Alaska	6
Arizona	14
California	49
Colorado	10
Delaware	1
Florida	3
Idaho	6
Illinois	10
Indiana	2
lowa	15
Kansas	1
Kentucky	1
Maine	4
Maryland	1
Michigan	23
Minnesota	10
Mississippi	2
Missouri	8
Montana	33
Nebraska	5
Nevada	5
New York	
North Carolina	3
North Dakota	5
Ohio	7
Oregon	71
Pennsylvania	2
South Carolina	1
South Dakota	14
Tennessee	5
Texas	1
Utah	63
Virginia	4
Washington	2
West Virginia	2
Wisconsin	5
Wyoming	17

## cv-016@ases@f Sohmone#ANewp@Ht4inPe#aster12007MLJJP-1 as of July 29, 2020

- Case definition:
  - Infection with Salmonella Newport and
  - with isolate matching by cgMLST within 0-5 alleles
  - with illness onset during 6/19/2020-present
- 416 cases from 37 states
- Isolation dates:6/20/2020 –7/18/2020
- Reported onset dates (n=226): 6/19/2020 -7/12/2020

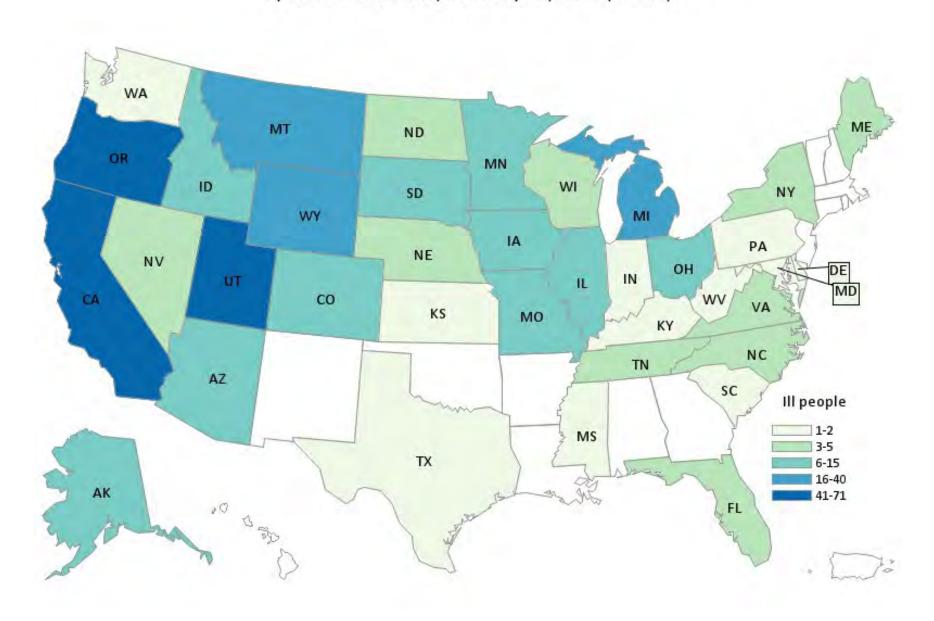
**Table 2.** Patient demographics in *Salmonella*Newport cluster 2007MLJJP-1, as of July 29, 2020

**Table 3.** Patient outcomes in *Salmonella*Newport cluster 2007MLJJP-1, as of July 29, 2020

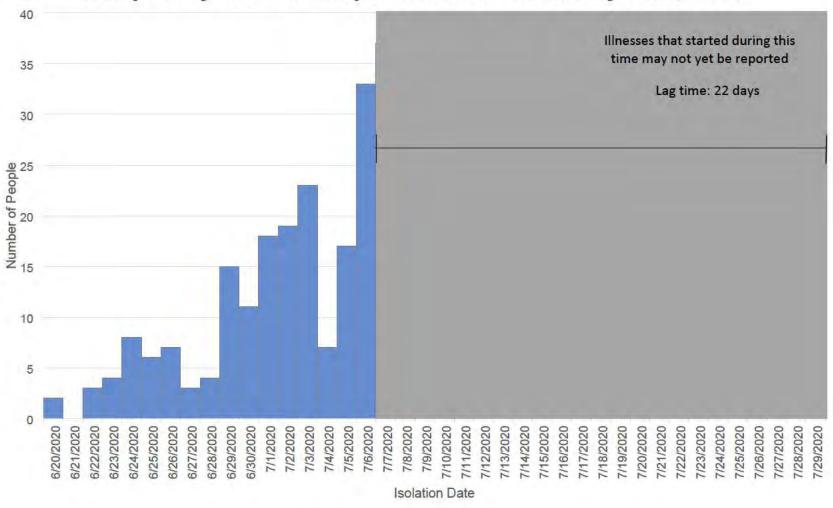
Demographics	
Age range (median), (n=414)	0-102 (39)
Age categories in years (n=414)	n (%)
<5	7 (2)
5 to 17	23 (6)
18 to 59	300 (72)
≥60	84 (20)
Sex (n=408)	n(%)
Female	213 (52)

Outcomes	n (%)
Hospitalized (n=236)	59 (25)
Died (n=233)	0 (0)

## Persons infected with the outbreak strain of Salmonella Newport, Case 1:21-cvi0160ate of FeBidence mental Full Files, 0200202(h=2490e)61 of 196



## People infected with the outbreak strain of **Salmonella** Newport by date of sample isolation\* as of July 29th, 2020



### **WGS Information on Cluster**

- All cases highly related at 0-5 alleles by cgMLST.
- Cluster is related (5 alleles) to 2 isolates from the historical cluster 1509MLJJP-1 (no vehicle identified)
- NCBI Pathogen Detection Pipeline shows international clinical matches from the UK and almond isolate matches within 14 SNPs.
- Canada reports matches by sequencing
- Cluster 2007MLJJP-1 is >2,000 alleles apart from 2006MLJJP-1

### Exposures from HGQ as of July 29, 2020

- 34/52 ground beef
- 25/52 other beef
- 42/52 chicken
- 45/52 leafy greens
  - 21 romaine, 21 iceberg
- 26/52 cilantro
- 40/52 tomatoes
  - 14 cherry/grape, 9 red round, 9 vine, 5 roma, 10 unspecified
- 37/52 onions
  - 10 red, 9 white, 7 yellow, 2 green, 13 unspecified
  - +3 likely onion-containing dishes

### Subcluster Exposures as of July 29, 2020

SCID	White Onion	Green Onion	Red Onion	Red Round Tomatoes	Roma Tomatoes	Green Peppers	Hot Peppers	Cilantro	Ground Beef
SC-01 SC-02 SC-03 SC-04		Χ	Χ		Χ		Χ	Χ	
SC-02			Χ	Χ		Χ		Χ	Χ
SC-03	Χ		Χ		Χ	Χ		Χ	
SC-04		Χ	Χ			Χ	Χ	Χ	Χ
SC-05		Χ	Χ				Χ	Χ	Χ
SC-06	Χ		Χ	Χ				Χ	Χ
SC-05 SC-06 SC-07 SC-08	Χ		Χ	Χ					
SC-08		Χ	Χ	Χ		Χ			Χ

## Salmonella Newport Outbreak 2007MLJJP-1

August 12, 2020

State	No. of cases
Alabama	1
Alaska	Case 1
Arizona	32
Arkansas	2
California	109
Colorodo	14
Connecticut	2
Delaware	1
Florida	
Georgia	2
Hawaii	3
Idaho	33
Illinois	44
Indiana	3
lowa	20
Kansas	2
Kentucky	1
Maine	
Marvland	
Massachusetts	
Michigan	41
Minnesota	17
Mississippi	
Missouri	10
Montana	52
Nebraska	10
Nevada	11
New Hampshire	2
New Jersev	
New Mexico	
New York	-
North Carolina	5
North Dakota	
Ohio	11
Oregon	90
Pennsylvania	15
Rhode Island	1
South Carolina	
South Carolina South Dakota	21
Tennessee	2.
	2
Texas	
<u>Utah</u>	97
Virginia	3
Washington	34
West Virgina	
Wisconsin	9
Wyoming	21

## 21-cv-016@ases of Solomone#aNewportinPelaster 2007MLJJP-1 as of August 12, 2020

- Case definition:
  - Infection with Salmonella Newport and
  - with isolate matching by cgMLST within 0-6 alleles
  - with illness onset during 6/19/2020-present
- 789 cases from 47 states
- Isolation dates:6/20/2020 –8/3/2020
- Reported onset dates (n=353): 6/19/2020 –7/26/2020

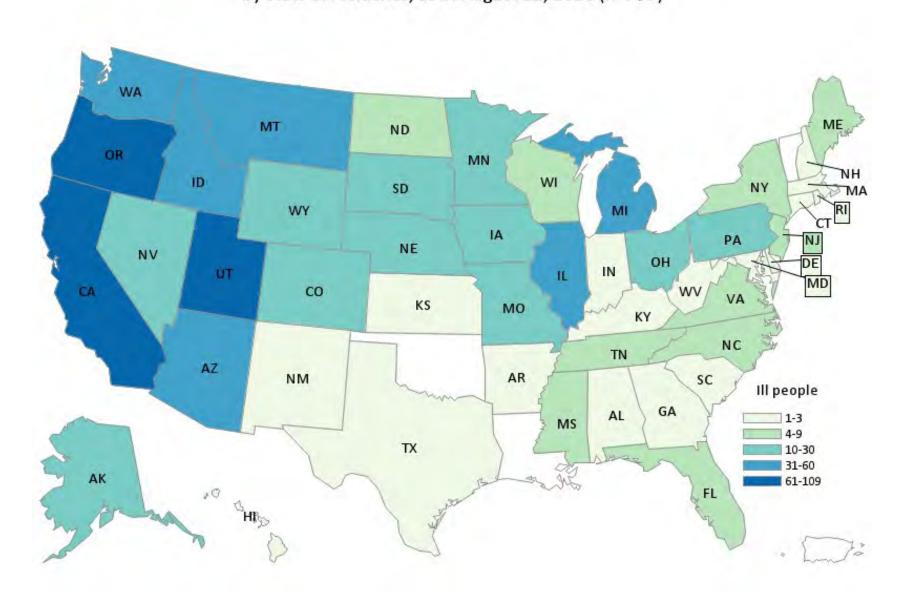
**Table 2.** Patient demographics in *Salmonella*Newport cluster 2007MLJJP-1, as of August 12, 2020

**Table 3.** Patient outcomes in *Salmonella*Newport cluster 2007MLJJP-1, as of August 12, 2020

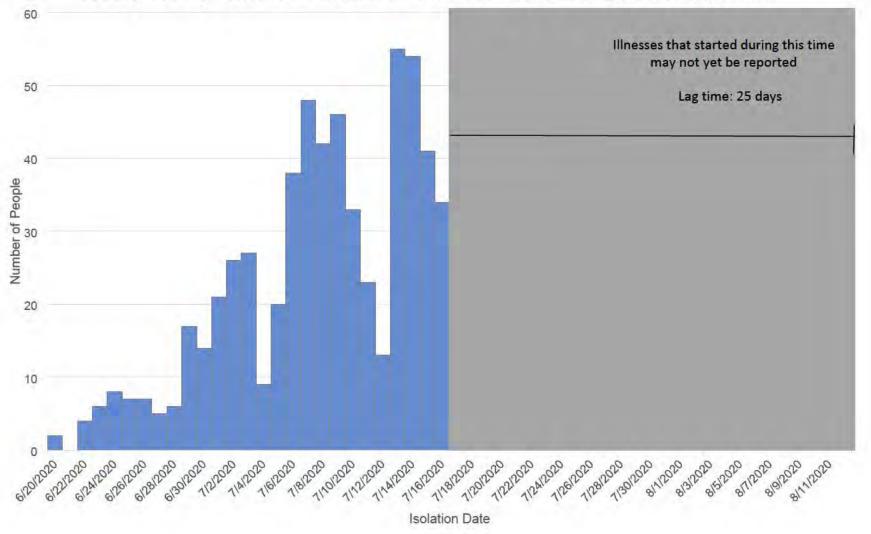
Demographics	
Age range (median), (n=786)	0-102 (40)
Age categories in years (n=786)	n (%)
<5	16 (2)
5 to 17	40 (5)
18 to 59	560 (71)
≥60	170 (22)
Sex (n=774)	n(%)
Female	427 (55)

Outcomes	n (%)
Hospitalized (n=370)	94 (25)
Died (n=363)	0 (0)

### Persons infected with the outbreak strain of Salmonella Newport, Case 1:21-clay \$6000 of Fresiden Course of Asignisite 20,0204/04(n=7.89) 69 of 196



## Case 1:21-cy-01609-JLT-CDB Document 153 Filed 06/04/24 Page 70 of 196 People infected with the outbreak strain of **Salmonella** Newport by date of sample isolation\* as of August 12th, 2020



\*n = 789

### **WGS Information on Cluster**

- All cases highly related at 0-6 alleles by cgMLST.
- Cluster is related (5 alleles) to 2 isolates from the historical cluster 1509MLJJP-1 (no vehicle identified)
- NCBI Pathogen Detection Pipeline shows international clinical matches from the UK and almond isolate matches within 14 SNPs.
- Canada reports matches by sequencing
- Cluster 2007MLJJP-1 is >2,000 alleles apart from 2006MLJJP-1

# CEXPOSURES From HGQ (V1) as of August 12, 2020

- 97/130 (75%) onions
  - 32 white, 31 red, 20 yellow, 32 unspecified
  - 108/130 (83%) if including likely onion-containing dishes
- 110/130 (85%) leafy greens
  - 53 iceberg, 47 romaine
- 65/130 (50%) cilantro
- 96/130 (74%) tomatoes
  - 29 cherry/grape, 22 red round, 19 roma, 14 vine, 29 unspecified

# as of August 12, 2020

- 12/12 (100%) onions
  - 7 (58%) red
    - 10/12 (83%) yes/maybe red
  - 6 (50%) white
    - 10/12 (83%) yes/maybe white
  - 4 (33%) yellow
    - 6/12 (50%) yes/maybe yellow
- 9/12 (75%) leafy greens
- 7/12 (58%) cilantro
- 8/12 (67%) tomatoes

# Subcluster Exposures as of August 12, 2020

- 26 subclusters identified from 9 states
  - 25 with info provided to CDC
- 21 with complete onion info
  - 21/21 any onion
  - 15/21 multiple onion types
  - 16/21 red onions
  - 12/21 yellow onions
  - 10/21 white onions

Subcluster	White onions	Yellow onions	Red onions
AZ-01		Χ	Χ
CA-01	Χ		Х
CA-02		Χ	
CA-04	Χ		
CA-05	X	Χ	X
IL-02			X
MI-01	Χ	Χ	
MI-02	Х	Χ	X
MI-04	Х	Χ	
MI-06	Χ	Χ	
MT-01			Х
MT-03			Х
ND-01			Х
OR-01		Χ	Х
OR-02		Χ	X
OR-04	X		Х
OR-05	Χ		X
OR-06		Χ	Х
UT-01	Χ		X
UT-03		Χ	X
WY-01		Χ	Χ

#### Case 1:21-cv-01609-JLT-CDB Document 153 Filed 06/04/24 Page 75 of 196

#### **CRT3 Meeting Minutes**

Salmonella Newport/Unknown/Jul 2020

<b>Meeting Title:</b>	Sysco Precall
Date/Time:	07/30/20, 11:00am ET
Facilitator:	CORE
Attendees:	ORA: 3W, SERCS, DDHAFO, PSN; CFSAN: OC, OFS, IAS, OAO, CORE; OC: OCC; CDC; CFIA, PHAC
Purpose: To discus	ss talking points and identify speakers for the upcoming firm call with
Sysco (b)(4)	, TX).

## Items Discussed: **Agenda for Pre-call:**

- Roll Call
- General situational awareness updates
- 8 subclusters supplied by Sysco. We've received records related to the Canadian traceback, but US records are still pending. Canada is planning on public communications.
- 3W had a meeting with Sysco this morning to explain purpose of call and agenda. Explained 4 agencies. Discussion regarding public comms
- Sysco has pushback and apprehension wanted to know if they would be named
- Kari got a heads-up phone call from Sysco last night. Sysco felt like they only knew of one subcluster associated with Sysco.
- Proposed agenda
- Introductions
- Canadian outbreak investigation overview
  - i. PHAC epidemiology update
  - ii. CFIA regulatory update
- US outbreak investigation overview
  - i. CDC epidemiology update
  - ii. FDA traceback update
- Discussion regarding public communication
- Talking points
- o PHAC
  - i. 115 confirmed cases. Number of case clusters at restaurants and living facilities. Onions, tomatoes, leafy greens have been id'd as common food. Red Onions have been id'd as likely source. Red onions were supplied by Sysco, no similarities among other food items.
- CFIA
  - i. May make formal recall request of product sent to Canada. Or at least an indication that it is in the works. If recall, then Sysco would be named publicly. (\*OCC doesn't think it's an issue to name suppliers later because we are not naming sysco in our press release)

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- o CDC
  - 396 ill in 36 states. High proportion list onions. Will send slides. Red onion only item in common among subclusters. Outbreak is moving fast. Will issue CDC Food Safety Alert.
- o FDA
  - i. FDA is tracing 14 subclusters as a part of US investigation. Some did not receive product from sysco. Eight subclusters did received product from Sysco. Products Onion, Tomatoes, and Cilantro. Imperial Fresh brand onions 25# bag. We do have information pending for additional subclusters. Some subclusters may drop off or be added based on information we receive.
- Communications
  - i. PHAC
    - i.1. In order to prevent further illness preparing to issue an advisory to not eat, sell, or use onions imported from the US.
  - ii. CFIA
    - ii.1. May have to have a food lines about the investigation is ongoing.
  - iii. CDC
    - iii.1. Planning to follow Canada's advice around not eating, selling, using red onions from the US following Canada's advice
  - iv. FDA
    - iv.1. Planning to put out outbreak advisory following Canada's advice. Investigation is ongoing.
- Anticipated questions from firm & federal responses
  - o (b) (5)
- Questions to Sysco
  - Where are the onions grown/from for the timeframe of interest? Want to target any comms
  - Inquire if onions distributed to Canada were also distributed in the US market
  - How are onions held
- Identify speakers for the Firm Call
  - Jane will facilitate the call
  - o FDA
    - i. CORE Evelyn Pereira, Corinne Newhart, Dr. Stic Harris
    - ii. Office of Food Safety Mary Tijerina, Patricia Homola
    - iii. Office of Compliance Thomas Kuntz
    - iv. Office of Chief Counsel Alexandra Jabs
  - o CDC
    - i. CDR Laura Gieraltowski, CDR Matt Wise, Lauren Stevenson
  - o PHAC
    - i. April Hexemer

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- o CFIA
  - i. Ken Marcynuk
- Health Canada

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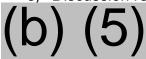
#### **CRT3 Meeting Minutes**

Salmonella Newport/Unknown/Jul 2020

<b>Meeting Title:</b>	Sysco Firm Call
Date/Time:	07/30/20, 12:00pm ET
Facilitator:	CORE
Attendees:	CORE, OC, PSN, OCC, 3W, DDHAFO, OFS, OAO, CDC, CFIA, PHAC,
	Sysco
Purpose: To discuss the ongoing outbreak investigation with Sysco (b)(4)	
, TX).	

#### **Items Discussed:**

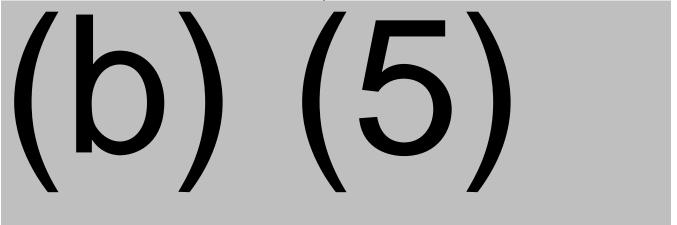
- 1) Introductions
  - a) Sysco
  - b) FDA
  - c) CDC
  - d) PHAC
  - e) CFIA
- 2) Canadian outbreak investigation overview
  - a) PHAC epidemiology update
    - a.i) Epi investigation id'd red onions as likely source. 80% report red onions expect 38% among population
    - a.ii) Red onions were received from sysco facilities. Same commonalties were not noted for other food items.
  - b) CFIA regulatory update
- 3) US outbreak investigation overview
  - a) CDC epidemiology update
    - a.i) Reviewed slides
  - b) FDA traceback update
    - b.i) Traceback investigation is ongoing. Tracing tomatoes, onions and cilantro. Tracing 14 subcluster. 6 did not get product from Sysco
- 4) Questions
  - Has CFIA reached out to suppliers? Not yet. Did have some retail stores that some ill people purchased onions
    - a.i) Sysco wants Canada to reach out to Onions 52 and thompson's international.
      - (a.i.1) FDA has reached out to Onions 52 on behalf of CFIA and got records late last night.
  - b) Will sysco be named or will it be a more general warning
    - b.i) Will id sysco independent operators and will say more may be named as investigation is ongoing. CFIA can share a draft with Sysco of comms
  - c) Has sysco looked at onions 52 and thompson's international for the US cases?
    - c.i) Onions 52 is coming up with some, but not all onion products (OR restaurant subclusters). All onions are grown and packed next to each other and in same sheds. Excluding subway, Onions52 is the main supplier
- 5) Discussion regarding public communication



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#### **CRT3 Meeting Minutes**

Salmonella Newport/Red Onion (Suspect)/Jul 2020

<b>Meeting Title:</b>	Onions 52 Precall
Date/Time:	07/30/20, 4:15pm ET
Facilitator:	CORE
Attendees:	ORA: 3W, 4W SERCS, DDHAFO, PSN; CFSAN: OC, OFS, IAS, OAO,
	CORE; OC: OCC; CDC; CFIA, PHAC
Purpose: To discuss talking points and identify speakers for the upcoming firm call with	
Onions 52 (Syracuse, UT).	

## Items Discussed: Agenda for Pre-call:

- Roll Call
- General situational awareness updates
- o Onions 52 supplied onions to Sysco. Onions 52 sells Thompson and Hartley
- Onions 52 reached out to ORA HAF3W, they heard from Sysco they needed to call DAL-DO about an outbreak. FDA has an interest in obtaining info from them. Asked about whole vs sliced and diced
- CFIA needs to know how product is packaged and identified
- Proposed agenda
- Introductions
- Canadian outbreak investigation overview
  - i. PHAC epidemiology update
    - (b) (5)
  - ii. CFIA regulatory update
    - ii.1.
- US outbreak investigation overview
  - i. CDC epidemiology update
  - ii. FDA traceback update
- Discussion regarding public communication
- OC recalls will ask if the firm plans on taking any product actions at this time. 24 hours to respond to FDAs ask
  - CFIA reports the likely first shipment of interest was May 24.
  - Scoping back to the earliest illness onset date + some lag. Unless we have indication its all of their red onions in exp.
  - CDC's first illness onset is 6/19/20, Canada is 6/15/20
  - Communications
    - i. PHAC
      - i.1. Will issue public advisory this evening
    - ii. CFIA
    - iii. CDC

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iv. FDA

iv.1. (b)(5)

- Anticipated questions from firm & federal responses
- Questions to Onions 52
  - Where were the onions grown that were supplied to the market between may and present
  - Comingling
  - Packaging
  - o Who else they pack for
  - Ask about their business model
  - Exclusive suppliers or sell to others

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- Identify speakers for the Firm Call
  - CORE will facilitate the call
  - FDA
    - i. CORE Evelyn Pereira, Doug Karas, Dr. Stic Harris
    - ii. Office of Food Safety Mary Tijerina, Patricia Homola
    - iii. Office of Compliance Kathy Darlington
    - iv. Office of Chief Counsel Alexandra Jabs
  - o CDC
    - i. CDR Laura Gieraltowski, CDR Matt Wise, Lauren Stevenson
  - PHAC
    - i. April Hexemer
  - CFIA
    - i. Ken Marcynuk

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#### **CRT3 Meeting Minutes**

Salmonella Newport/Red Onions (Suspect)/Jul 2020

<b>Meeting Title:</b>	Onions 52 Firm Call
Date/Time:	07/30/20, 5:00pm ET
Facilitator:	CORE
Attendees:	CORE, OC, OCC, 3W, 4W, DDHAFO, OFS, OAO, OSPOP Recalls, IAS,
	CDC, CFIA, PHAC, Onions 52
Purpose: To discus	ss the ongoing outbreak investigation with Onions 52.

#### **Items Discussed:**

- 1) Introductions
  - a) Onions 52
  - b) FDA
  - c) CDC
  - d) PHAC
  - e) CFIA
- 2) Canadian outbreak investigation overview
  - a) PHAC epidemiology update
    - a.i) Epi investigation id'd red onions as likely source. 80% report red onions expect 38.5% among population
    - a.ii) Red onions were received from Sysco facilities. The same commonalties were not noted for other food items.
    - a.iii) Grocery store purchases were not supplied by Sysco.
  - b) Questions
    - b.i) What grocery store chain? Most commonly reported Save-On-Food
    - b.ii) What providence? More western providences, mostly BC
    - b.iii) Outbreak Providences? Shared case count by Providences
    - b.iv) Soby and Lablaw grocery stores have been reported
  - c) CFIA regulatory update
    - c.i) Still investigating
    - c.ii) PHAC risk assessment says red onions sold through Sysco are a high risk so proceeding with class 1 recall tonight
  - d) Questions
    - d.i) Have you done testing? Strong epi evidence
    - d.ii)How is it a class 1 risk? Salmonella in a ready to eat food or food eaten raw is a class 1 risk
    - d.iii) PHAC has been investigating last week. Cases were eating at restaurants where they were reporting burgers. Were perusing understanding toppings on burgers. It was determined that it was likely red onions.
    - d.iv) Processed onions? No, invoices indicate whole onions
    - d.v) Testing? There are a few samples in the lab and not representative of all of the onions on the market. Don't always rely on direct product testing
    - d.vi) Stic explained outbreak investigation process

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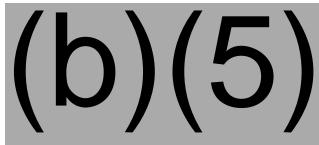
- 3) US outbreak investigation overview
  - a) CDC epidemiology update
    - a.i) Reviewed slides
    - a.ii) 396 ill in the US
    - a.iii) Explained restaurant subclusters 22 illness sub cluster in the US (2-7 illnesses per cluster)
    - a.iv) Issuing a food safety alert tomorrow advising not to eat red onions
  - b) Questions
    - b.i) Was mostly in restaurants or at home/retail? Most of the subclusters are restaurant locations
  - c) FDA traceback update
    - c.i) Traceback investigation is ongoing. Tracing tomatoes, onions and cilantro. Tracing 14 subcluster. 6 did not get product from Sysco, but still working to ID their supply chain. 8 subclusters did receive onions from Sysco, 6 specifically received red onions. Onions 52 was identified as the common supplier to these sub clusters
    - c.ii) Questions
      - (c.ii.1) Can onions carry salmonella?
      - (c.ii.2) Can they know the POSs? No, they will need to go to Sysco for this information
      - (c.ii.3) Has Sysco identified any supplier that was no onions 52? CFIA says only if there was (b) (4)
      - (c.ii.4) From 5/24- present (b) (4) and mostly from (b) (4) onions up to 6/1. Since June they've been coming from Thompson in California
        - (c.ii.4.a) Thompson sells to other accounts besides Sysco, mostly (b) (4)
          - (c.ii.4.a.i) First red onion shipped from CA
          - (c.ii.4.a.ii) Supplied wholesalers in (b) (4)
      - (c.ii.5) Overview of Onions 52 business model
        - (c.ii.5.a) Grow, pack, and ship onions 52 weeks/year. Grow in Washington, ID, UT, OR, CA, NM
        - (c.ii.5.b) Sell to US and Canada
        - (c.ii.5.c) Thompson Grower/Shipper in CA. 30-day program ship out of facility and distribute to shed in Bakersfield. Ship Late may early august. Have outside growers that grow in partnership. Thompson workers harvest product and cure in facility for several days/weeks before packing. Ship to North America through different vendors but mostly onions 52. Red, white, and yellow are grown in same field. Share same equipment. Swabbed and had product samples tested all results were negative
        - (c.ii.5.d) Did overhead watering with well and surface water this year (c.ii.5.e)No impacts from COVID
    - c.iii) Recall Ask

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- (c.iii.1) Swab tested packing lines and sent product sample of red, white, and yellow and watermelon. All were negative.
- (c.iii.2) Were onion samples from same fields of interest? From fields in CA
- (c.iii.3) The fields were completed several weeks ago that would have been the first onions have been gone for several weeks.
- (c.iii.4) How much is likely still on the market? Probably not much, summer onions do last
- (c.iii.5) FDA's ask will stay for a product action to get the product off the shelf
- 4) Discussion regarding public communication



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#### **CRT3 Meeting Minutes**

Salmonella Newport/Red Onion (suspect)/Jul 2020

<b>Meeting Title:</b>	SPTC #1
Date/Time:	07/31/20, 7:00pm ET
Facilitator:	CORE
Attendees:	ORA: HAF: 5W, DHAFO, PSN, ORS; CFSAN: OC, CORE; CDPH, CDFA
Purpose: To discuss assignment for Thompson International Inc.	

#### **Items Discussed:**

- 1. Recall overview of what is expected
- 2. Comms overview
  - a. CDC's isn't live yet
- 3. CORE Leadership Situation Overview
  - a. Concerned with lack of forthcomingness from the firm. Can we get boots on the ground sooner than next week.
- 4. Who is going out? FDA, CDPH, CA RRT
  - a. Questions
    - a.i. Water samples
      - a.i.1. Sediment or filtration
    - a.ii. Ask where the fields are
    - a.iii. If and who can get out there this weekend
      - a.iii.1. CDPH is behind the curve. Would need to get approval from mgmt. lab isn't prepared to take samples. Will not be able to get staff there this weekend
      - a.iii.2. 5W Can start with PSN and support maybe not to Wednesday. Mentioned that this could delay recall because company is working on limited staff.
        - a.iii.2.a. Can offer support to PSN, but cant lead
        - a.iii.2.b. POC
      - a.iii.3. CDFA can assist, but not lead
    - a.iv. Env sampling, raw onion collection should be initial focus
    - a.v. ORA/ORS will ID lab that can take samples
    - a.vi. Assignment needs to be issued Sunday, early is better
    - a.vii. Need eric brown and Rebecca bell
    - a.viii. Contact mike Mahovic or Samir
    - a.ix. Food contact surface sampling zone 1, 2, 3; water sampling of canal and reservoirs at fields
    - a.x. If staff gets out there and cant do recall and env at same time
      - a.x.1. Not our problem if they cant shadow sample us
    - a.xi. CDFA and CDPH do not know who owns the canal. Will likely need to get permission to sample
      - a.xi.1. CDFA will reach out to water district.

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#### **CRT3 Meeting Minutes**

Salmonella Newport/Red Onion (suspect)/Jul 2020

<b>Meeting Title:</b>	Tactics #2
Date/Time:	07/31/20, 2:00pm ET
Facilitator:	CORE
Attendees:	ORA: HAF: 1E, 2E, 5E, 6E, 1W, 2W, 3W, 4W, 5W, 6W, SERCs, DHAFO, PSN, ORS, OSPOP, LAO; CFSAN: OC, OFS, IAS, OAO, CORE; OCC, OEO; CDC; CFIA, PHAC; AK, CA, IL, IN, MD, MI, MN, MO, ND, NE, NY, OH, OR, TN, UT, VA, WA, WI, WV

**Purpose:** To discuss proposed incident objectives and field activities to occur during the upcoming Operational Period. These incident objectives and activities will be reviewed to determine what has been accomplished to date and what additional work is needed.

#### **Items Discussed:**

- Collaborate with CDC to obtain epidemiologic information regarding any new cases, updates to exposure histories, and whole genome sequencing analyses.
  - 508 cases in 39 states
  - o 6/19-7/19/20 onsets
- Collaborate with Canadian Food Inspection Agency and Public Health Agency of Canada to obtain updates to their epidemiologic information, product sampling results, and traceback investigation.
  - o PHAC: 114 cases in 5 providences, 6/15-7/18 onset, 15 clusters
  - CFIA: Recall from sysco in western Canada. Sysco sells directly online to consumers in ON. Investigating process in Vancouver that imports from same company as sysco.
- Coordinate traceback activities and collaborate with investigational partners to evaluate additional clusters for potential traceback investigations.
  - o Product flow diagram was reviewed
  - CDPH say (b)(4) leg is getting worse as they go further into it. FDA may remove it as a subcluster due to poor records
  - OR reports many cases shopping at (b)(4)
- Collaborate with Office of Regulatory Affairs Human and Animal Foods 1E (NWE-DO) to develop a traceback information request for Subway (b)(4)
   CT).
  - Received records. All locations appear to be 1 off exposure minus MI.

    Named (b)(4) farms as source for onions, not seeing it elsewhere. Sysco doesn't supply to all subways and those it does were specifically branded for subway.

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#### **CRT3 Meeting Minutes**

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- Follow up with Office of Regulatory Affairs Human and Animal Foods 3W (DAL-DO) on eNSpect Assignment #167287 for record collection from Sysco (b)(4) , TX).
  - Received records from Sysco. Still expecting some information. Sysco can provide records on the lots that were distributed
  - Held firm call with sysco yesterday, prior to Canada webpostings.
- Follow up with Office of Regulatory Affairs Human and Animal Foods 4W and 5W (DEN-DO, SAN-DO) and Office of Regulatory Affairs Produce Safety Network regarding potential assignment for an inspection and record collection at Thomson International Inc (Bakersfield, CA).
  - Thomson is packer and farm implicated in our investigation.
  - o Intending to initiate a voluntary recall. Requesting epi summary and traceback summary to help them understand how they are tied to the outbreak. Will recall all varieties of onions shipped 5/26-present (all shipments out of Bakersfield location to sysco).
  - o 1<sup>st</sup> shipment from (b) (4) onions was earlier, not going to recall these because didn't go to sysco and have (b) (4)
  - Want explanation on states/providences they don't ship product to MB,
     ME.
  - Have product in warehouse in Canada they want to test.
  - Inspection at Thomson.
    - PSN can coordinate per usual. Need to talk to SMEs to see if need to expand past secondary activities farm.
    - Mission critical designation OC can coordinate it through Bill Correll.
    - Timing: sometime next week to get it pulled together
    - Collecting samples of recalled product.
      - OC says samples can be regulatory
      - Glen Bass wants more discussion before collecting samples.
      - OC recalls says they can be research samples.
  - CDPH asks about what Thomson is doing in the Bakersfield facility
    - 5W says ceasing operations and shipping activities
    - 5 fields in Bakersfield. Each field has different varieties of onions.
  - Firm indicated they have a very specific traceability program and can tie to variety of onions
- Represent FDA on CDC-facilitated States calls, the Canadian Outbreak Investigation Coordinating Committee call, and Industry calls.
  - Held industry call today with FDA, CDC, CFIA, PHAC letting industry know comms likely to come out
- Coordinate with federal, state, and local communications partners to ensure appropriate messaging is provided related to this investigation.
  - CORE is preparing to issue web post. In clearance now.
  - CDC is working on getting investigation notice updated today. Want recall notice, but if recall isn't done today they will go out with broader advice.

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- PHAC no plans
- o CFIA might issue additional recall warning updates if new recalls
- States: CA no press, OR likely to issue press.
- Disseminate incident related information to FDA stakeholders and facilitate the sharing of incident related information across partner agencies through FoodSHIELD <u>Salmonella Newport/Red Onion (suspect)/Jul 2020</u>
- Solicit recommendations from investigation partners related to process improvements, food safety and preventive controls, research opportunities, and education/training.

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#### **CRT3 Meeting Minutes**

Salmonella Newport/Red Onion/Jul 2020

Meeting Title:	SPTC #2
Date/Time:	08/14/20, 12:00pm ET
Facilitator:	CORE
Attendees:	ORA: DHAFO, PSN; CFSAN: OC, OFS, CORE
Purpose: Discuss Investigation.	observations identified during the Thomson International Inc Root Cause

#### Items Discussed:

- 1. PSN Update from Thomson International, Inc.
  - a. Concerns:
    - Buildings not fully enclosed to protect from animals soiling equipment
    - ii. Inadequate measures against pest control (cat, pigeons, scat) and for equipment cleaning
    - iii. Multiple SOPs contradict (no record of training of employees) and lack of coordination within organization
  - b. Water samples (pending results)
- 2. Produce Safety Rule
  - a. Discussed Forms 4056 and 484
  - b. Verbal vs. written issuance
- 3. Review documents and edit

a.

b.

- 4. Questions
  - A. (b) (4) Onion tail water usage

i.

- ii. Investigating water event's relation to onion contamination
  - iii. Field harvested onions in (b) (4)
  - iv. Shipments in traceback show harvest date (b) (4) Rationale: Can't rule out contamination by timing.
- B. Sanitation Records
  - Records must reflect reality
- C. Was fertilizer with poultry pellets used? No
- D. What prompted the usage of sanitizer in the water?
  - i. Firm uses (b) (4) (b) (4)
  - ii. No direct usage of sanitizer in the water
- E. Are chemicals being used according with the label? Not confirmed
- F. Water Treatment complying with EPA rule
  - i. Not FDA jurisdiction but water treatment has to be used according to the label

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#### **CRT3 Meeting Minutes**

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- G. Harvest measures
  - i. Either mechanical or by hand
  - ii. PSN will summarize harvesting observations and share with group
- 5. Assignment responses
  - A. PSN will follow-up in writing once organized
  - B. Issue assignments to Holtville
    - i. Red onions grown at Holtville were packed in Bakersfield or other packing facility
    - ii. Planning to issue new assignment for Holtville (draft assignment based on previous Bakersfield assignment)
    - iii. Volunteers will be contacted about forming groups to investigate Holtville. Due to COVID conditions, working with volunteers on outbreaks back to back (Cyclospora then S. Newport).
- 6. Next Steps:
  - A. PSN will schedule another call to follow up on questions and recommendations

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#### **CRT3 Meeting Minutes**

Salmonella Newport/Red onion (suspect)/Jul 2020

<b>Meeting Title:</b>	Tactics #3
Date/Time:	08/07/2020, 2:00pm ET
Facilitator:	CORE
Attendees:	ORA: HAF: 1E, 2E, 5E, 6E, 1W, 2W, 4W, 5W, 6W, SERCs, DHAFO, PSN, ORS, OSPOP, LAO; OCI; CFSAN: OC, OFS, OAO, CORE; OCC, OEO; CDC; FSIS; CFIA, PHAC; AZ, CA, IL, IA, MI, MN, MO, ND, NY, OR, TN, UT, VA, WA, WI, WV

**Purpose:** To discuss proposed incident objectives and field activities to occur during the upcoming Operational Period. These incident objectives and activities will be reviewed to determine what has been accomplished to date and what additional work is needed.

#### **Items Discussed:**

- Collaborate with CDC to obtain epidemiologic information regarding any new cases, updates to exposure histories, and whole genome sequencing analyses.
  - o 701 cases in 46 states (around 40 uploads per day)
  - o 6/19-7/19/20 onset dates
  - White, Yellow, Red onion types
- Collaborate with Canadian Food Inspection Agency and Public Health Agency of Canada to obtain updates to their epidemiologic information, product sampling results, and traceback investigation.
  - PHAC: 239 cases in 7 providences, 6/15-7/22 onset dates, 29 hospitalized, 0 deaths, Red Onion continuously reported
  - CFIA: Recall updates. Working through secondary products and anticipate more products under recall. Samples from senior living facilities have been undetected for Salmonella (pending more results).
- Coordinate traceback activities and collaborate with investigational partners to evaluate additional clusters for potential traceback investigations.
  - Traceback diagram was reviewed
  - o Noted (b)(4) grows berries, not onions
  - One field cannot supply majority of US and Canada but packing house could be the commonality
  - o Investigate (b)(4) ' relationship with Onions 52

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#### **CRT3 Meeting Minutes**

Salmonella Newport/Red onion (suspect)/Jul 2020

- Michigan cluster of yellow onions being reported (requesting additional information from Thomson International)
- Monitoring CDPH's Traceback leg
- Possible onion shortage's linkage to increased export of onions to Central America
- OR didn't receive samples from (b)(4) of interest
- Follow up with Office of Regulatory Affairs Human and Animal Foods 3W (DAL-DO) on eNSpect Assignment #167287 for record collection from Sysco (b)(4)
   TX).
- Follow up with Office of Regulatory Affairs Human and Animal Foods 5W (SAN-DO) and Office of Regulatory Affairs Produce Safety Network regarding assignments FACTS #12055268 and FACTS #12055297 for Root Cause Investigation and record collection at Thomson International Inc (Bakersfield, CA).
  - o Team 1
    - Collected environmental samples (2). Negative results
    - Noted animal activity within and around the packing facilities
  - o Team 2
    - Revisited same locations as Team 1
    - Noted sanitation concerns
    - Reviewed (b) (4) connection
    - SOPs didn't correlate with packing facility protocol
    - Collected onion samples (pending results)
    - Teams 2A & 2B formed to inspect fields, growing practices, water usage
  - Scat samples appear to be mammalian
  - o Packing lines (b) (4)
- Follow up with Office of Regulatory Affairs Office of Regulatory Science regarding samples #1145760, #1145761, and #1141449.
  - Lab samples are pending results
- Coordinate with federal, state, and local communications partners to ensure appropriate messaging is provided related to this investigation.
  - CORE updated case counts and included additional recalls
  - CDC updated outbreak notices with additional recalls and locations
  - PHAC will be updating Public Health Notice
  - o CFIA: no plan
  - States: no plan

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- Represent FDA on CDC-facilitated States calls, the Canadian Outbreak Investigation Coordinating Committee call, and Industry calls.
- Disseminate incident related information to FDA stakeholders and facilitate the sharing of incident related information across partner agencies through FoodSHIELD <u>Salmonella</u> Newport/Red Onion (suspect)/Jul 2020
- Solicit recommendations from investigation partners related to process improvements, food safety and preventive controls, research opportunities, and education/training. <a href="https://www.surveymonkey.com/r/NXRRM2Q">https://www.surveymonkey.com/r/NXRRM2Q</a>

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#### **CRT3 Meeting Minutes**

Salmonella Newport/Red onion/Jul 2020

<b>Meeting Title:</b>	Tactics #4
Date/Time:	08/14/2020, 2:00pm ET
Facilitator:	CORE
Attendees:	ORA: HAF: 1E, 2E, 5E, 6E, 1W, 3W, 4W, 5W, 6W, SERCs, DHAFO, PSN, DIO, ORS, OSPOP, OCI; CFSAN: OC, OFS, OAO, CORE; OEO; CDC; FSIS; CFIA, PHAC; AZ, IL, MI, MN, MT, ND, OR, PA, TN, UT, WA, WI, WV

**Purpose:** To discuss proposed incident objectives and field activities to occur during the upcoming Operational Period. These incident objectives and activities will be reviewed to determine what has been accomplished to date and what additional work is needed.

#### **Items Discussed:**

- Collaborate with CDC to obtain epidemiologic information regarding any new cases, updates to exposure histories, and whole genome sequencing analyses.
  - 850 cases from 47 states
  - o 06/19-07/26/20 onset dates
  - o 108/133 confirmed onion exposures
  - o From questionnaire, majority report eating multiple types on onions
  - 26 subclusters
- Collaborate with Canadian Food Inspection Agency and Public Health Agency of Canada to obtain updates to their epidemiologic information, product sampling results, and traceback investigation.
  - o 339 cases in 7 provinces, majority in Western Canada
  - $\circ$  06/15/-07/2/20 onset dates
  - $\circ$  07/27/20 isolation date
  - o 133/154 report red onion exposure in restaurants and grocery store
  - Updating Public Health Notice to reflect case count

#### A. CFIA

- i. Post recalls for secondary products (for example, fresh salsa)
- ii. Identify fields associated with Thomson International? → Field-level traceback not available

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#### **CRT3 Meeting Minutes**

Salmonella Newport/Red onion/Jul 2020

iii. (b) (4) Subway traced back (Subway (b) (4)

- Coordinate traceback activities and collaborate with investigational partners to evaluate additional clusters for potential traceback investigations.
  - o Added (b) (4) to diagram
  - o Additional clusters?
    - MI → working to investigate cluster in (b) (4) White and yellow onions reported. Will conduct record collection.
  - o (b) (4) background and connection to traceback (PSN will contact investigation team to follow up)
- Follow up with Office of Regulatory Affairs Human and Animal Foods 6E (CHI-DO) regarding an assignment for record collection from (b)(4), IL).
  - o Continue attempts for collection via phone and email
  - o Once received, update traceback diagram as needed
- Follow up with Office of Regulatory Affairs Human and Animal Foods 5W (SAN-DO) and Office of Regulatory Affairs Produce Safety Network regarding assignment FACTS #12055297 for Root Cause Investigation and record collection at Thomson International Inc (Bakersfield, CA).
  - o Evaluating records
  - o Deciding on determinations in either written or verbal
  - o Concerns for pest, employee training, and sanitation
  - Holtville investigation pending since it's confirmed that onions grown in Holtville were packed/processed at Bakersville packing facility and shipped to customers
  - Will share assignment with SMEs but will be using template for Bakersfield's assignment
- Follow up with Office of Regulatory Affairs Office of Regulatory Science regarding samples #1145623, #1145624.
  - Pending results
  - o No validated method for Salmonella filtration analyses
  - Suggest better way to collect water samples in future
  - A. Thoughts on the need for more onion samples?
    - Office of Compliance interested in sampling as many onions as possible from the implicated timeframe and/or recall
    - Produce Safety Network investigators sampled all lots of onions available in Bakersfield
    - Considering Sysco onions previously collected or other onions to use for more sampling
- Coordinate with federal, state, and local communications partners to ensure appropriate messaging is provided related to this investigation.

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#### **CRT3 Meeting Minutes**

Salmonella Newport/Red onion/Jul 2020

- o CORE:
  - Monitoring downstream recalls.
  - Notices updated yesterday with secondary products affected by recall.
  - Major recalls page released to post downstream recalls
- o CDC: updated posts and case count update will be next week.

o CDPH: no updates

o CFIA: no updates

States: no updates

- Represent FDA on CDC-facilitated States calls, the Canadian Outbreak Investigation Coordinating Committee call, and Industry calls.
  - o CDC- no plans
- Disseminate incident related information to FDA stakeholders and facilitate the sharing of incident related information across partner agencies through FoodSHIELD <u>Salmonella</u> <u>Newport/Red Onion/Jul 2020</u>
- Solicit recommendations from investigation partners related to process improvements, food safety and preventive controls, research opportunities, and education/training. https://www.surveymonkey.com/r/NXRRM2Q

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#### **CRT3 Meeting Minutes**

Salmonella Newport/Red Onion/Jul 2020

<b>Meeting Title:</b>	SPTC #5
Date/Time:	09/10/20, 12:00pm ET
Facilitator:	CORE
Attendees:	ORA: ORS; CFSAN: ORS, CORE
Purpose: Discuss laboratory methodology used to analyze the samples collected as part of the	

outbreak.

#### **Items Discussed:**

- 1. Overview of samples
  - a) Sampling assignments sent as part of investigations
  - b) 26 samples collected from Thomson Intl. Bakersfield (all negative)
  - c) 25 samples collected from Thomson Intl. Holtville (10 positive for Salmonella but WGS pending)
  - d) 52 product samples collected from distribution centers (all negative)

#### 2. ORA ORS

- a) Onion samples analyzed with Trypticase Soy Broth (TSB)
- b) Environmental samples
  - a.i. Lactose Broth (LB) was used for environmental samples (sampling recommendations were changed)
  - a.ii. Sediment and water samples were spiked
  - a.iii. Mix of 2004.03 and 2011.03 methods with swab type samples
  - a.iv. Mix of spiked samples with the VIDAS method
- c) Scat samples
  - a.i. Scat samples were spiked

#### 3. CFSAN ORS

- a) Onion samples
  - Inhibitory test on Salmonella growth i.
  - Found Trypticase Soy Broth (TSB) worked well
- b) Environmental samples
- c) Scat samples
- 4. Methodology
  - a) Sampling guidance was changed amidst analyses
  - b) Discussed ways to document changes/recommendations via Sharepoint, etc..
  - c) Ensure offices are operating from the most recent guidance
  - d) Advised to separate assignments from methodologies
  - e) CFSAN ORS would like feedback from analysts to improve effectiveness

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#### **CRT3 Meeting Minutes**

Salmonella Newport/Red Onion/Jul 2020

- f) Supported open lines of communication between ORA ORS and CFSAN ORS for best practices
- 5. Updates for remaining isolates
  - a) 8 isolates from 754 sample pending WGS
  - b) 31 isolates from 755 sample pending WGS
  - c) For the 4 positive samples, WGS should be confirmed next week

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#### **CRT3 Meeting Minutes**

Salmonella Newport/Red onion/Jul 2020

<b>Meeting Title:</b>	Tactics #5
Date/Time:	08/25/2020, 12:00pm ET
Facilitator:	CORE
Attendees:	ORA: HAF: 1E, 2E, 4E, 1W, 2W, 3W, 4W, 5W, 6W, DHAFO, PSN, DIO, ORS, OSPOP, ORA OE, LAO, OCI; CFSAN: OC, OFS, OAO, OOA, ORS, DPS, OCC, OEO, CORE; CDC; FSIS; CFIA, PHAC; IL, MD, MN, MT, ND, OR, UT, WA, WI, WV

**Purpose:** To discuss proposed incident objectives and field activities to occur during the upcoming Operational Period. These incident objectives and activities will be reviewed to determine what has been accomplished to date and what additional work is needed.

#### **Items Discussed:**

- Collaborate with CDC to obtain epidemiologic information regarding any new cases, updates to exposure histories, and whole genome sequencing analyses.
  - $\circ$  993 cases from 47 states, onset dates 06/19 08/3/20 (investigating one case with 08/14/20 onset date)
  - Decline in reports of cases
  - o Cases are related 0-6 alleles by cgMLST
  - o Analyzed 300 responses to questionnaire (80% identified onions)
  - o 34 sub clusters (31 from restaurants, 3 from grocery stores)
- Collaborate with Canadian Food Inspection Agency and Public Health Agency of Canada to obtain updates to their epidemiologic information, product sampling results, and traceback investigation.

#### A. CFIA

- Cases appear to be slowing down
- No updates
- No food safety warnings updated recently
- Observing possible exposures

#### B. PHAC

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#### **CRT3 Meeting Minutes**

Salmonella Newport/Red onion/Jul 2020

- 395 cases, latest onset date is 08/07/20, most exposures are from restaurants or living facilities
- Updated public health notice, decline in confirmed cases
- 1 sample of recalled onion (0nions 52 from Costco) pending analysis
- Next meeting is on Thursday
- Coordinate traceback activities and collaborate with investigational partners to evaluate additional clusters for potential traceback investigations.
- Follow up with Office of Regulatory Affairs Human and Animal Foods 5W (SAN-DO) and Office of Regulatory Affairs Produce Safety Network regarding assignment FACTS #12055297 for investigation and record collection at Thomson International Inc (Bakersfield, CA).
  - Preparing to do close out on Wednesday or Thursday of this week at Bakersfield.
     Finalizing details for the close out meeting
- Coordinate with Office of Regulatory Affairs Human and Animal Foods 5W (SAN-DO/LOS-DO) and Office of Regulatory Affairs Produce Safety Network regarding an assignment for Root Cause Investigation at Thomson International, Inc. (Holtville, CA).
  - o Completed environmental sampling of cooling area
  - Visited Pepper 22A field for sprinkler
  - o Completed ultra-filtration sample
  - o Provided firm with a 484
  - o No more sampling locations to visit and no more samples to acquire
  - One sample # was duplicated because of how it was keyed in the system.
     Corrections are pending
  - o Any issues the investigators obviously noted? No, not to their understanding
- Follow up with Office of Regulatory Affairs Human and Animal Foods 4W (DEN-DO) and 1E (NYK-DO) regarding sample collection assignments FACTS# 12061017 and FACTS# 12061168 at Sysco (b)(4)

  , UT) and Sysco (b)(4)

, NY).

- A. DEN-DO
  - Sampling team is collecting 6 samples from 3 remaining item numbers. Issue 484 and close out afterwards
- B. NYK-DO
  - Plan on collecting 16 samples for submission
- o Ability to use 702b portions depends on if sample is perishable. Can the lab convert 702b portions to samples? Response pending
- Offices will work together on perishability of onions and legal usage of 702b portions

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#### **CRT3 Meeting Minutes**

Salmonella Newport/Red onion/Jul 2020

- Who's responsible for reporting results from 702b samples? Who to report to (Thomson, Sysco, or both)? Will follow up
- Follow up with Office of Regulatory Affairs Office of Regulatory Science and Center for Food Safety and Applied Nutrition Office of Regulatory Science regarding presumptive and pending samples.
  - Original ultra-filtration samples did not arrive in expected timeframe and were potentially compromised while sitting at elevated temperatures. Samples are being processed
  - Best case scenario, presumptive positive samples will be confirmed on Friday.
     Results from WGS will be ready on Monday with the latest being Tuesday. No updates on other pending samples.
  - o Some onions at Holtville were not subject to the recall (harvest dates were before Bakersfield). Only fresh harvested bulb onions (none are frozen) are of concern.
- Coordinate with federal, state, and local communications partners to ensure appropriate messaging is provided related to this investigation.
  - o If lab results are positive, communication strategy will change
- Represent FDA on CDC-facilitated States calls, the Canadian Outbreak Investigation Coordinating Committee call, and Industry calls.
- Disseminate incident related information to FDA stakeholders and facilitate the sharing of incident related information across partner agencies through FoodSHIELD <u>Salmonella</u> Newport/Red Onion/Jul 2020
- Solicit recommendations from investigation partners related to process improvements, food safety and preventive controls, research opportunities, and education/training. https://www.surveymonkey.com/r/NXRRM2Q

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#### **CRT3 Meeting Minutes**

Salmonella Newport/Red onion/Jul 2020

<b>Meeting Title:</b>	Tactics #6
Date/Time:	09/01/2020, 12:00pm ET
Facilitator:	CORE
Attendees:	ORA: HAF: 1E, 2E, 4E, 5E, 3W, 4W, 5W, 6W, OHAFO, DHAFO, PSN, DIO, ORS, LAO, OCI; CFSAN: OC, OFS, IAS, OAO, ORS, DPS, OCC, OEO, CORE; CDC; FSIS; CFIA, PHAC; CA, IA, IL, IN, KS, MD, MI, MN, MT, OR, UT, VA, WI

**Purpose:** To discuss proposed incident objectives and field activities to occur during the upcoming Operational Period. These incident objectives and activities will be reviewed to determine what has been accomplished to date and what additional work is needed.

#### **Items Discussed:**

- Collaborate with CDC to obtain epidemiologic information regarding any new cases, updates to exposure histories, and whole genome sequencing analyses.
  - o 1,023 cases from 47 states
  - 7 new additions over weekend
  - $\circ$  08/18/20 is the latest isolation date
  - $\circ$  06/19-08/03/20 onset dates
  - o 0-6 cgMLST
  - o 34 sub clusters from 13 states
- Collaborate with Canadian Food Inspection Agency and Public Health Agency of Canada to obtain updates to their epidemiologic information, product sampling results, and traceback investigation.
  - o CFIA
    - No updates and completed traceback
  - PHAC
    - 457 confirmed cases
    - 7 provinces (majority in Alberta)
    - 08/11/20 is the latest isolation date
    - 2 reported deaths (one case is confirmed to not be linked to Salmonella outbreak and one case's cause of death is unknown)

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#### **CRT3 Meeting Minutes**

Salmonella Newport/Red onion/Jul 2020

- Identified many links to Thomson International, Inc. onions
- Coordinate with Office of Regulatory Affairs Human and Animal Foods 5W (SAN-DO/LOS-DO) and Office of Regulatory Affairs Produce Safety Network regarding assignment FACTS# 12060391 for an investigation at Thomson International, Inc. (Holtville, CA).
  - No updates
  - Working on reports and will share with CORE once complete
  - o Thomson investigation in Holtville, CA closed on 08/24/20
  - o Thomson investigation in Bakersfield, CA closed on 08/27/20
- Follow up with Office of Regulatory Affairs Office of Regulatory Science and Center for Food Safety and Applied Nutrition Office of Regulatory Science and Office of Analytics and Outreach regarding presumptive and pending sample results and WGS analysis.
  - o In total, 113 samples collected
  - CFSAN ORS
    - 2 Ultrafiltration samples are Salmonella positive (pending WGS), 5
       Ultrafiltration samples are pending confirmation
  - ORA ORS
    - Product samples are pending completion.
    - From environmental samples (sediment, water, etc..), positive for Salmonella and several isolates submitted for WGS (6 do not match clinical outbreak)
    - 1 scat sample is pending confirmation
    - 20 samples pending WGS
  - Office of Analytics and Outreach
    - Waiting for one sample to be re-sequenced
  - Division of Produce Safety
    - Shared and discussed field map
    - Red onions were grown in lower half of Pepper 22A field and yellow onions were grown in upper half of Pepper 22A field
    - Yellow dots represent where sediment samples were collected
    - White dots represent where CRO, pending, or negative samples were collected
    - Holtville Eight Drain flows water from south to west to north. Provides drainage for 8 eight blocks, snaking through valley, collecting from production fields
    - Pepper Lateral flows irrigation water from east to west
    - Cattle farm that appears in compromising condition is nearby a drain of interest
    - Area is dry (no rain since February of this year). Average temperatures range 110-120° Fahrenheit
    - Elementary school and Hay Forage Site are north of fields
  - o For Holtville, onions planted in October were harvested in May of this year
  - o Office of Compliance: planning internal call to strategize plan
- Coordinate with federal, state, and local communications partners to ensure appropriate messaging is provided related to this investigation.

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#### **CRT3 Meeting Minutes**

Salmonella Newport/Red onion/Jul 2020

- o FDA plans to update case counts
- o CDC plans to update case counts
- o CAN updated case counts yesterday
- Represent FDA on CDC-facilitated States calls, the Canadian Outbreak Investigation Coordinating Committee call, and Industry calls.
  - No plans
- Disseminate incident related information to FDA stakeholders and facilitate the sharing of incident related information across partner agencies through FoodSHIELD <u>Salmonella</u> <u>Newport/Red Onion/Jul 2020</u>
- Solicit recommendations from investigation partners related to process improvements, food safety and preventive controls, research opportunities, and education/training. https://www.surveymonkey.com/r/NXRRM2Q

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#### **CRT3 Meeting Minutes**

Salmonella Newport/Red onion/Jul 2020

<b>Meeting Title:</b>	Tactics #7
Date/Time:	09/11/2020, 12:00pm ET
Facilitator:	CORE
Attendees:	ORA: HAF: 1E, 2E, 4E, 5E, 1W, 2W, 6W, OHAFO, DHAFO, PSN, ORS, CFSAN: OC, OFS, IAS, ORS, DPS, OCD, OCC, OEO, CORE; CDC; FSIS; CFIA, PHAC; CA, IL, MD, MI, MN, MT, NY, OR, UT, VA, WI

**Purpose:** To discuss proposed incident objectives and field activities to occur during the upcoming Operational Period. These incident objectives and activities will be reviewed to determine what has been accomplished to date and what additional work is needed.

#### **Items Discussed:**

- Collaborate with CDC to obtain epidemiologic information regarding any new cases, updates to exposure histories, and whole genome sequencing analyses.
  - 1.095 cases in 48 states
  - o 06/20/20 08/25/20 onset dates
  - o Related by 0-6 alleles cgMLST
  - o From questionnaires, 66% reported red onions
  - o No timeline on outbreak slowing down
- Collaborate with Public Health Agency of Canada to obtain updates to their epidemiologic information.
  - o PHAC
    - 506 cases
    - Outbreak is slowing down
    - 08/16/20 is latest onset date
    - Long reporting delay
  - o CFIA
    - No updates

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#### **CRT3 Meeting Minutes**

Salmonella Newport/Red onion/Jul 2020

- Follow up with Office of Regulatory Affairs Office of Regulatory Science and Center for Food Safety and Applied Nutrition Office of Regulatory Science and Office of Analytics and Outreach regarding presumptive and pending sample results and WGS analysis.
  - WGS for water samples (multiple serotypes, with Newport being one of them) should be confirmed next week
  - o WGS for 1 scat sample should be confirmed early next week
- Follow up with Center for Food Safety and Applied Nutrition Office of Food Safety, Office of Compliance, Office of Regulatory Affairs Produce Safety Network regarding an investigation at Thomson International, Inc. (Bakersfield, CA).
  - o Requested need for more sample collection as part of ongoing concern
  - o Collaboration between Office of Compliance and Office of Food Safety
  - Samples collected will be regulatory
  - o CFSAN Office of Compliance will issue assignment
  - ORA Produce Safety Network will receive support for ultrafiltration water samples next week
  - o Samples are expected to arrive at CFSAN Office of Regulatory Science
  - o Currently, scope of assignment is incomplete
  - Division of Produce Safety discussion of map
    - Focused on sediment sample collection (interested in 10 UF water samples)
    - Plans for water collection also
    - Relationship between retention basin, etc..
    - Soil samples weren't collected. Water, sediment, product, and scat samples were collected
    - 1 scat sample appeared as Poly D, indicating that it is most likely not S.
       Newport
    - Discussed "Sep 2020 Suggested Environmental Sample Collection" document
    - Desire for water samples from (b) (4) to be re-done

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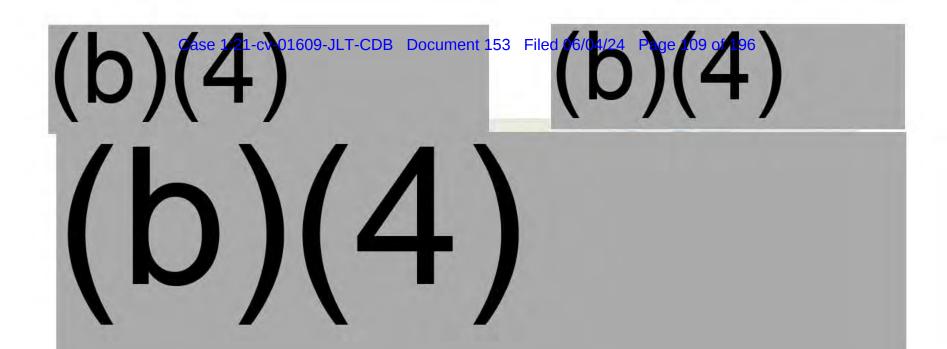
#### **CRT3 Meeting Minutes**

Salmonella Newport/Red onion/Jul 2020

- Nearby (b) (4) is being noted for potential relationship
- Product from Holtville went through Bakersfield facility
- If positive match to outbreak strain in Holtville, suggested to not go to Bakersfield. This would not explain outbreak. Not all lots of interest, etc.. received product from Holtville
- o Possible to (b) (5) ? Agreed but will follow-up with leadership. Will mobilize as if starting on Tuesday to avoid last minute haste.
- o Ensured CA still has people available to help.
- Coordinate with federal, state, and local communications partners to ensure appropriate messaging is provided related to this investigation.
  - No updates
- Disseminate incident related information to FDA stakeholders and facilitate the sharing of incident related information across partner agencies through FoodSHIELD <u>Salmonella</u> Newport/Red Onion/Jul 2020
- Solicit recommendations from investigation partners related to process improvements, food safety and preventive controls, research opportunities, and education/training. <a href="https://www.surveymonkey.com/r/NXRRM2Q">https://www.surveymonkey.com/r/NXRRM2Q</a>

# Salmonella Newport Outbreak associated with red onions - BC, AB, SK, MB, ON, QC, PEI, USA – 2020-151

Updated: August 5, 2020



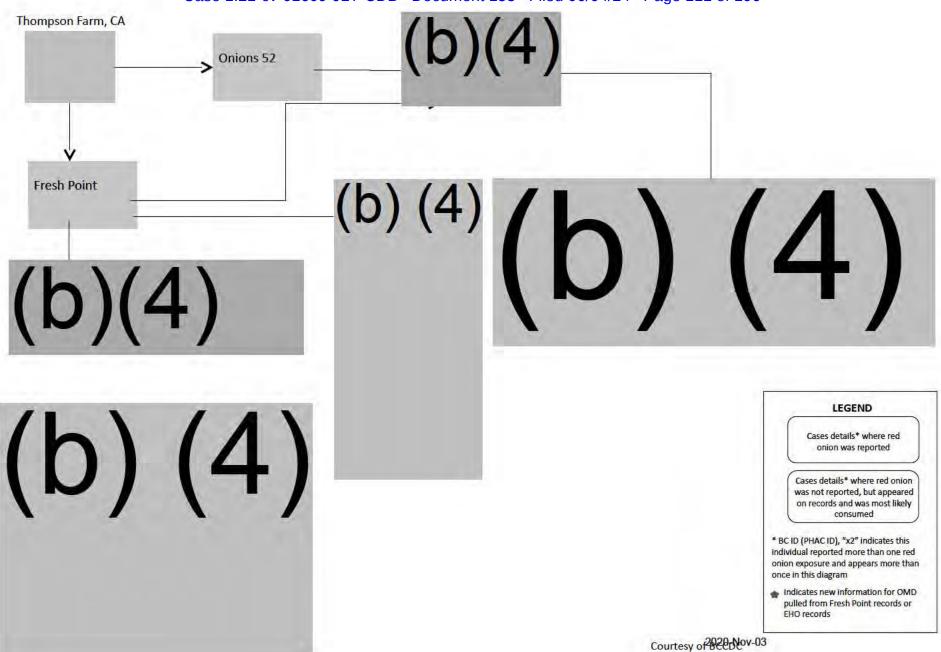


# Thomson Farms

- Fields based out of Bakersfield CA area
- Common processing, storage, packing out of Bakersfield CA.
- · 30 day onion program on field
- Shipping from end of May through August (First Canadian onset associated with May 24th distributed product)
- Use outside growers in near-by fields as well as their own fields

(FOUO) For Official Use Only Page 330 2020-Nov-03

BC trace back for red onion, August 3 Case 1:21-cv-01609-JLT-CDB Document 153 Filed 06/04/24 Page 111 of 196



## Tuesday, August 11:

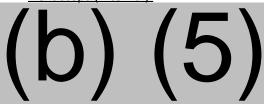
- No samples were collected.
- Information collected on Tuesday, August 11 provided further evidence that Thomson does not have adequate knowledge or control over their operation
  - They have 15 total employees; nearly all work is performed by contract labor crews or 3<sup>rd</sup> parties
  - They rely heavily on paperwork and documentation provided by their outside contractors
    - While reviewing documentation (newly discovered on Tuesday, August 11) the investigation team observed 6 post-dated "Well Head Inspection Checklists" and requested copies of all of these forms from 2019 to present (noting the dates of post dated documents prior the request). The copies and originals returned did not include the post dated documents.
    - While reviewing field and ranch risk assessment forms, the team consistently observed the exact same descriptions copy and pasted to describe different ranches
      - For example, Thomson's only Bakersfield ranch with 3 well-heads is Ranch 3. However, nearly all ranches were listed as having 3 well-heads on site on Thomson risk assessment documents. These descriptions were written in paragraph form and it was exactly the same from one document to the next
- The investigation team came across a PrimusGFS audit report (they believe it was dated around April, 01, 2020). However, once they saw it, Mr. Thomson (politely) took the report from the team and said it was only for internal review. The team was interested in this report, as a lot of SOPs seemed to be dated directly before that Primus audit. As mentioned previously, the team has concerns about the SOPs being followed, so this is part of what the team is still reviewing/evaluating (see "Next Steps (internal)" section, below).

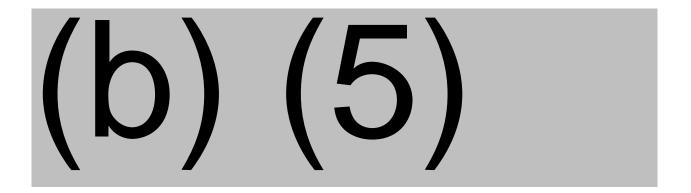
#### Pending Information from the team:

I posed the following back to the team, and will let you know as soon as I have the information.

- Additional request from CRT3 (see attached e-mail).
- From CRT3: "Pepper 22 is in Holtville and covers many of the earlier shipments with some later ones mixed in. If this is not accessible during this assignment, we would need to know if any product from there (Holtville) was processed in Bakersfield or if equipment was shared, etc."
  - Once we have this intel from the investigators, we'll need to discuss with CRT3 and SMEs whether an investigation in Holtville is needed. If it is, ORA PSN will start that process of trying to get volunteers for that assignment.
  - Per records the team reviewed, the ranches in Holtville have access to and occasionally use surface water for irrigation.

Next steps (internal):

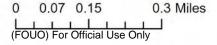




# Salmonella Newport/Red Onion (suspect)/Jul 2020 Classification: Farm

Pepper 22a







# Salmonella Newport/Red onion/Jul 2020 Traceback Investigation Summary EON 371142

For internal FDA use only. This summary contains confidential, commercial information and may not be released outside FDA without appropriate redaction.

# **Traceback Abstract**

A regulatory traceback was initiated for four legs at ten points-of-service (POS) in response to an outbreak of *Salmonella* Newport illnesses. As of 10/08/2020, there were 1,132 culture-confirmed illnesses in 48 states [AK (25), AL (2), AR (2), AZ (39), CA (128), CO (32), CT (2), DE (2), FL (8), GA (11), HI (3), ID (43), IL (54), IN (4), IA (31), KS (3), KY (3), ME (6), MA (2), MD (7), MI (47), MN (19), MO (11), MS (5), MT (72), NC (6), ND (9), NE (10), NH (1), NJ (12), NM (3), NV (14), NY (14), OH (11), OK (1), OR (110), PA (27), RI (3), SC (1), SD (24), TN (7), TX (2), UT (115), VA (10), WA (150), WI (11), WV (3), WY (27)]. CDC identified red onions as the vehicle of interest. Reported onset dates ranged from 06/19/2020 to 09/11/2020.

Four traceback legs representing 26 cases were initiated on 07/21/2020. Factors used in identifying "best cases" were: more than one case at a single POS with exposures to red onions. Case patients included in the traceback investigation had known meal/exposure dates which ranged from 06/19/2020 to 07/15/2020. The timeframe of interest for record collection was identified as two weeks at POS for known meal dates and three weeks for onset dates.

The four traceback legs converged on Thomson International Inc, LLC (Bakersfield, CA).

A summary of each traceback leg, including data analysis discussion, follows:

# Traceback Leg 1 (Sysco Montana POS Leg)



• Thomson International Inc, LLC; 11220 S. Vineland Rd., Bakersfield, CA 93307-9489

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(b)(4)

This restaurant is located at (b) (4)

. There were two lab-confirmed cases associated with this POS with meal dates of 06/19/2020 or 06/20/2020 and 06/25/2020 or 06/26/2020. The case with the earlier meal date reported eating a nacho meal. The case with the later meal date also reported eating a nacho meal and the case's friend reportedly ate a burger and shared the nachos before becoming ill with diarrhea (unconfirmed case). (b) (4)

FDA Human and Animal Foods Division 6 West (Seattle District Office) worked with the Montana Department of Agriculture to collect records and information from the restaurant. FDA Human and Animal Foods Division 6 East (Chicago District Office) collected records related to this restaurant from US Foods Inc (Rosemont, IL) as a part of eNSpect assignment # 170684. FDA Human and Animal Foods Division 3 West (Dallas District Office) collected records related to this restaurant from Sysco (b)(4) , TX) as a part of eNSpect assignment # 167287.

(b) (4) received red onions from their distributors (b)(4) , MT) and , IL).

FROM: (b)(4)

Product Description: ONION RED JMBO BOX
Shipment Date Invoice # Oty

(b)(4)

FROM: (b) (4)

Product Description: 1/10# PACKER ONIONS RED JMBO

Invoice Date Invoice # Qty

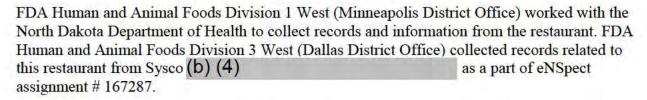
(b) (4)

The bolded lots above were implicated because they would have been available at the restaurant within three weeks of the case patients' illness onset dates.

(b)(4)

This restaurant is located at (b) (4) . There were two lab-confirmed cases associated with this POS with illness onset dates of 06/25/2020 and 06/26/2020. The case with the earlier onset date reported yes to eating red and white onions. The case with the later onset date reported maybe to eating onions.

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(b) (4) received red onions from their distributor (b)(4)
(b) (4)

FROM: (b)(4)

Product Description: 25 LB IMPFRSH ONION RED JMBO FRSH BOX

Invoice Delivery Date | Invoice # Otv

(b)(4)

The bolded lots above were implicated because they would have been available at the restaurant within three weeks of the case patients' illness onset dates.

(b) (4)

This restaurant is located at (b) (4) . There were two lab-confirmed cases, and a third unconfirmed case, associated with this POS with meal dates of 06/21/2020, between 06/19/2020 and 06/26/2020, and between 06/24/2020 and 07/01/2020. One confirmed case with an illness onset date of 06/27/2020 ate regularly at (b) (4) , reported eating a burrito there, and said yes to eating white onions.

FDA Human and Animal Foods Division 4 West (Denver District Office) worked with the Wyoming Department of Agriculture to collect records and information from the restaurant. FDA Human and Animal Foods Division 3 West (Dallas District Office) collected records related to this restaurant from Sysco (b) (4)

as a part of eNSpect assignment # 167287.

(b) (4) received red onions from their distributor (b)(4) , MT).

FROM: (b)(4)
Product Description: 25 LB IMPFRSH ONION RED JMBO FRSH BOX
Invoice Delivery Date Invoice # Qty

The state of the state of

\*Invoice number was illegible.

The bolded lots above were implicated because they would have been available at the restaurant within two weeks of the case patients' meal dates.

(b) (4)

This restaurant is located at (b) (4) . There were three lab-confirmed cases associated with this POS with meal dates of 07/09/2020 and 07/10/2020. The cases reported eating a burger meal and a nacho meal, respectively.

FDA Human and Animal Foods Division 6 West (Seattle District Office) worked with the Montana Department of Agriculture to collect records and information from the restaurant. FDA Human and Animal Foods Division 3 West (Dallas District Office) collected records related to this restaurant from Sysco(b) (4) as a part of eNSpect assignment # 167287.

(b) (4) received red onions from their distributor (b)(4) , MT).

FROM: (b)(4)

Product Description: 25 LB IMPFRSH ONION RED JMBO FRSH BOX

Invoice Delivery Date | Invoice # Oty

(b)(4)

The bolded lots above were implicated because they would have been available at the restaurant within two weeks of the case patients' meal dates.

(b)(4)

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FDA Human and Animal Foods Division 3 West (Dallas District Office) collected records related to this distributor from Sysco (b) (4)

], as a part of eNSpect assignment # 167287.

Sysco Montana Inc received red onions from Thomson International Inc. (Bakersfield, CA) via distributor Onions 52 Inc (Syracuse, UT), (b) (4)

FROM: Onions 52 Inc

TO: (b) (4)

Product Description: US#1 Carton 25 lb Jumbo Red Conv Globe Type Onions Produce of USA

BOL Ship Date Order # Cust PO # Qty

FROM: Onions 52 Inc

TO: (b) (4)

Product Description: US#1 Carton 25 lb Jumbo Red Conv Globe Type Onions Produce of USA

BOL Ship Date Order # Cust PO # Qty

(b) (4)

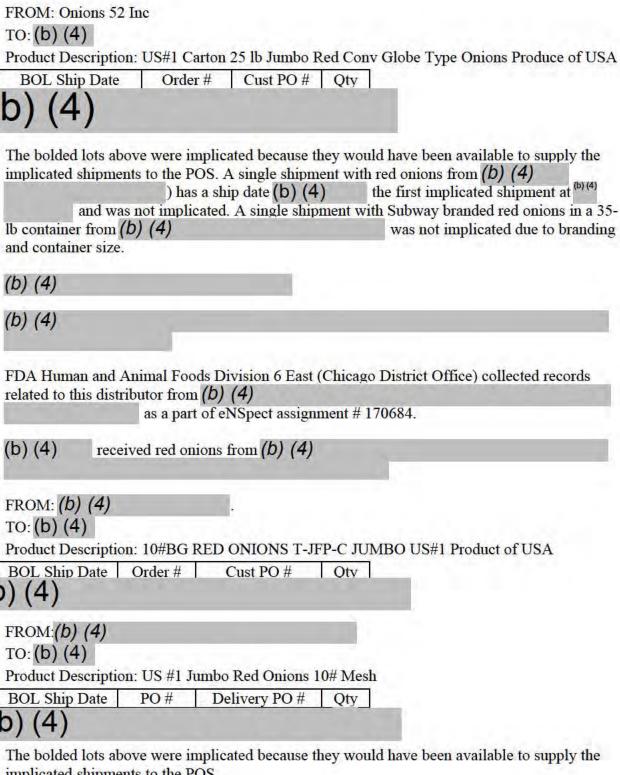
FROM: Onions 52 Inc

TO: (b) (4)

Product Description: US#1 Carton 25 lb Jumbo Red Conv Globe Type Onions Produce of USA

BOL Ship Date Order # Cust PO # Qty

(b) (4)



implicated shipments to the POS.

Onions 52 Inc (Syracuse, UT) [FEI: 3016800010]

Onions 52 Inc is located at 800 S. 2000 W., Syracuse, UT 84075-6924.

FDA Human and Animal Foods Division 4 West (Denver District Office) collected information and records related to this distributor as a part of eNSpect assignment # 167509.

Onions 52 Inc has a sales arrangement with Thomson International Inc, LLC (Bakersfield, CA).

Thomson International Inc, LLC (Bakersfield, CA) [FEI: 3004391505]

Thomson International Inc<del>, LLC</del> is located at 11220 S. Vineland Rd., Bakersfield, CA 93307-9489.

FDA Human and Animal Foods Division 5 West (San Francisco District Office) and the California Department of Food and Agriculture performed an investigation with record collection and environmental sampling as a part of FACTS assignment # 12055268. FDA Office of Regulatory Affairs Produce Safety Network, FDA Human and Animal Foods Division 5 West (San Francisco District Office), the California Department of Public Health, and the California Department of Food and Agriculture performed an investigation with record collection and environmental, product, and water sampling as a part of FACTS assignment # 12055297.

Thomson International Inc, LLC provided data in a spreadsheet that identified the growers, fields, harvester, harvest dates, pack dates, and lots for the red onions identified by the order numbers and customer purchase order numbers from implicated shipments sent to Sysco Montana Inc. Additional documentation provided by Thomson International Inc, LLC included corrected invoices and pallet tags associated with each order, however the associated lot numbers were not consistent and not routinely managed by the firm. Thomson International Inc, LLC identified the spreadsheet as the most accurate source of traceability information.

FOR: Choppers

Product Type: JR25CTN

Order#	Cust PO#	Grower	Field	Harvester	Harvest Dates	Pack Date	Lot
0172701	1915141	RothFleisc h	Pepper 22	JJ Harvesting	05/10/2020 - 05/15/2020	?**	523

<sup>\*\*</sup>Pack date was not available.

FOR: Doc Holliday's Roadhouse

Product Type: JR25CTN

110000	- J P G : 01 C						
Order #	Cust PO#	Grower	Field	Harvester	Harvest Dates	Pack Date	Lot
0164626	1914859	RothFleisc h	Pepper 22	JJ Harvesting	05/10/2020 - 05/15/2020	05/28/2020	523
0169326	1914965	Thomson	Pepper 22	JJ Harvesting	05/10/2020 - 05/16/2020	?**	523
0175601	1915267	RothFleisc h	Pepper 22	JJ Harvesting	05/10/2020 - 05/15/2020	06/06/2020, 06/08/2020	523
0179308	1915445	Fast	R&G 161	JJ Harvesting	06/02/2020 - 06/09/2020	06/16/2020	533
0180808	1915529	Fast	R&G 161	JJ Harvesting	06/02/2020 - 06/09/2020	06/16/2020	533

<sup>\*\*</sup>Pack date was not available.

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FOR: Las Margaritas Product Type: JR25CTN

Order#	Cust PO #	Grower	Field	Harvester	Harvest Dates	Pack Date	Lot
0164626	1914859	RothFleisc h	Pepper 22	JJ Harvesting	05/10/2020 - 05/15/2020	05/28/2020	523
0169326	1914965	Thomson	Pepper 22	JJ Harvesting	05/10/2020 - 05/16/2020	?**	523
0172701	1915141	RothFleisc h	Pepper 22	JJ Harvesting	05/10/2020 - 05/15/2020	?**	523
0175601	1915267	RothFleisc h	Pepper 22	JJ Harvesting	05/10/2020 - 05/15/2020	06/06/2020, 06/08/2020	523
0179308	1915445	Fast	R&G 161	JJ Harvesting	06/02/2020 - 06/09/2020	06/16/2020	533
0180808	1915529	Fast	R&G 161	JJ Harvesting	06/02/2020 - 06/09/2020	06/16/2020	533
0184915	1915683	Fast	R&G 161	JJ Harvesting	06/02/2020 - 06/09/2020	06/19/2020	533
0186715	1915807	Thomson	32-1	JJ Harvesting	06/30/2020 - 07/02/2020	07/06/2020	553
0189722	1915996	Thomson	GLAD E	JJ Harvesting	06/22/2020 - 06/26/2020	06/26/2020	543

<sup>\*\*</sup>Pack date was not available.

FOR: MT Pints

Product Type: JR25CTN

Order#	Cust PO #	Grower	Field	Harvester	Harvest Dates	Pack Date	Lot
0180808	1915529	Fast	R&G 161	JJ Harvesting	06/02/2020 - 06/09/2020	06/16/2020	533
0192922	1916091	Fast, Thomson	R&G 161, GLAD E	JJ Harvesting	06/02/2020 - 06/09/2020, 06/22/2020 - 06/26/2020	06/19/2020, 06/26/2020	533, 543

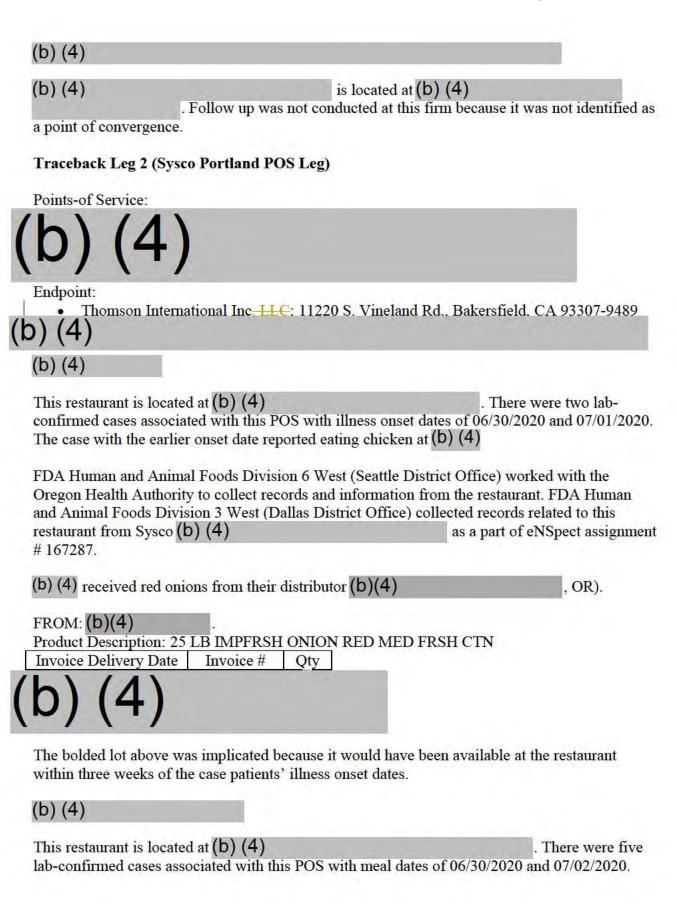
Four fields were identified for the implicated red onions in this leg.

- Pepper 22 (Holtville, CA)
  - o 32°53'22.2" N 115°22'8" W
  - o 32°53'22.2" N 115°22'9" W
  - o 32°53'22.2" N 115°22'10" W
- R&G Field 161 (Bakersfield, CA)
  - o 35°24'22" N 119°11'25" W
- Thomson 32-1 (Bakersfield, CA)
  - o 35°24'18" N 118°89'47" W
  - Of note, the 07/06/2020 pack date associated with lot 553 grown in this field is after the 06/22/202 ship date for Order # 0186715 and after the meal dates associated with the POS Las Margaritas.
- Thomson Gladestone (GLAD E) (Bakersfield, CA)
  - o 35°16'01" N 118°56'57" W

(b)(4)

(b) (4) is located at (b) (4) . Follow up was not conducted at this firm because it was not identified as a point of convergence.

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Sixty-nine additional probable cases were identified. One case patient with an illness onset date of 07/03/2020 reported eating carne asada and chips with salsa.

FDA Human and Animal Foods Division 6 West (Seattle District Office) worked with the Oregon Health Authority to collect records and information from the restaurant. FDA Human and Animal Foods Division 3 West (Dallas District Office) collected records related to this restaurant from Sysco (b) (4)

# 167287.

(b) (4) received red onions from their distributor (b)(4) , OR).

FROM: (b)(4)

Product Description: 25 LB IMPFRSH ONION RED JMBO FRSH BOX

Invoice Delivery Date Invoice # Oty

(b) (4)

The bolded lots above were implicated because they would have been available at the restaurant within two weeks of the case patients' meal dates.

(b) (4)

This long-term care facility is located at (b) (4) . There were three lab-confirmed cases associated with this POS with illness onset dates of 07/08/2020 and 07/09/2020. The three cases are all residents at this long-term care facility and ate all of their meals here; a specific meal date of 07/02/2020 was provided.

FDA Human and Animal Foods Division 6 West (Seattle District Office) worked with the Oregon Health Authority to collect records and information from the long-term care facility. FDA Human and Animal Foods Division 3 West (Dallas District Office) collected records related to this long-term care facility from Sysco (b) (4)

) as a part of eNSpect assignment # 167287.

(b) (4) received red onions from their distributors (b)(4) (D) (4) and (D) (4)

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FROM: (b)(4) Product Description: 5 LB IMPFRSH ONION RED JMBO CTN Invoice # Otv Invoice Delivery Date The bolded lots above were implicated because they would have been available at the restaurant within three weeks of the case patients' illness onset dates. A single shipment of red onions was received from (b) (4) , but it was not implicated because it was received after the likely meal dates. (b)(4)This restaurant is located at (b) (4) There were two labconfirmed cases associated with this POS with meal dates of 07/09/2020. The cases were at a catered event on 07/09/2020. FDA Human and Animal Foods Division 6 West (Seattle District Office) worked with the Oregon Health Authority to collect records and information from the restaurant. FDA Human and Animal Foods Division 3 West (Dallas District Office) collected records related to this restaurant from Sysco (b) (4) as a part of eNSpect assignment # 167287. received red onions from their distributor (b)(4) OR). FROM: (b)(4) Product Description: 25 LB IMPFRSH ONION RED JMBO FRSH BOX Invoice Delivery Date Invoice #

The bolded lots above were implicated because they would have been available at the restaurant within three weeks of the case patients' illness onset dates.

(b)(4) <u>OR)</u> [FEI: (b)(4)
(b)(4) . is located at (b) (4)

FDA Human and Animal Foods Division 3 West (Dallas District Office) collected records related to this distributor from Sysco (b) (4)

], as a part of eNSpect assignment # 167287.

Sysco Portland, Inc. received red onions from Thomson International Inc. (Bakersfield, CA) via distributor Onions 52 Inc (Syracuse, UT).(b) (4)

including with shipper

(b)(4)

or shipper (b) (4)

FROM: Onions 52 Inc

TO: (b)(4)

Product Description: US#1 Carton 25 lb Medium Red Conv Globe Type Onions Produce of USA

(b)(4)

FROM: Onions 52 Inc

TO: (b)(4)

Product Description: US#1 Carton 25 lb Jumbo Red Conv Globe Type Onions Produce of USA

(b)(4)

FROM: Onions 52 Inc

TO: (b)(4)

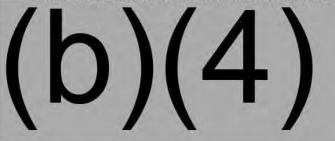
Product Description: US#1 Carton 5 lb Jumbo Red Conv Globe Type Onions Produce of USA

(b)(4)

FROM: Onions 52 Inc

TO: (b)(4)

Product Description: US#1 Carton 25 lb Jumbo Red Conv Globe Type Onions Produce of USA



FROM: (b) (4) TO: (b) (4)

Product Description: BAG RED ONIONS 25 LBS JUMBO USA

BOL Ship Date Order # Cust PO # Qty

(b)(4)

The bolded lots above were implicated because Sysco (b)(4) . provided traceability information connecting incoming shipments from Onions 52 Inc and (b) (4) to their outgoing shipments to supply the POS.

Onions 52 Inc (Syracuse, UT) [FEI: 3016800010]

Onions 52 Inc is located at 800 S. 2000 W., Syracuse, UT 84075-6924.

FDA Human and Animal Foods Division 4 West (Denver District Office) collected information and records related to this distributor as a part of eNSpect assignment # 167509.

Onions 52 Inc has a sales arrangement with Thomson International Inc. LLC (Bakersfield, CA).

(b)(4)

(b) (4) is located at (b) (4) Follow up was not conducted at this firm because it was not identified as a point of convergence.

Thomson International Inc. LLC (Bakersfield, CA) [FEI: 3004391505]

Thomson International Inc. LLC is located at 11220 S. Vineland Rd., Bakersfield, CA 93307-9489.

FDA Human and Animal Foods Division 5 West (San Francisco District Office) and the California Department of Food and Agriculture performed an investigation with record collection and environmental sampling as a part of FACTS assignment # 12055268. FDA Office of Regulatory Affairs Produce Safety Network, FDA Human and Animal Foods Division 5 West (San Francisco District Office), the California Department of Public Health, and the California

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Department of Food and Agriculture performed a root cause investigation with record collection and environmental, product, and water sampling as a part of FACTS assignment # 12055297.

Thomson International Inc, LLC provided data in a spreadsheet that identified the growers, fields, harvester, harvest dates, pack dates, and lots for the red onions identified by the order numbers and customer purchase order numbers from implicated shipments sent to Sysco Portland, Inc. Additional documentation provided by Thomson International Inc, LLC included corrected invoices and pallet tags associated with each order, however the associated lot numbers were not consistent and not routinely managed by the firm. Thomson International Inc, LLC identified the spreadsheet as the most accurate source of traceability information.

FOR: Shari's

Product Type: MR25CTN

0 0 0 0 0 0 0	- )						
Order#	Cust PO #	Grower	Field	Harvester	Harvest Dates	Pack Date	Lot
0170701	1915078A	RothFleisch	Pepper 22	JJ Harvesting	05/10/2020 - 05/15/2020	06/06/2020	523

FOR: Si Casa Flores
Product Type: JR5CTN

	J I						
Order#	Cust PO #	Grower	Field	Harvester	Harvest Dates	Pack Date	Lot
0170701	1915078A	RothFleisc h	Pepper 22	JJ Harvesting	05/10/2020 - 05/15/2020	06/06/2020	523
0184415	1915621A	Fast	R&G 161	JJ Harvesting	06/02/2020 - 06/09/2020	06/19/2020	531

FOR: Avamere at Three Fountains

Product Type: JR5CTN

Order#	Cust PO #	Grower	Field	Harvester	Harvest Dates	Pack Date	Lot
0184415	1915621A	Fast	R&G 161	JJ Harvesting	06/02/2020 - 06/09/2020	06/19/2020	531

FOR: Baja Fresh

Product Type: JR25CTN

Order #	Cust PO #	Grower	Field	Harvester	Harvest Dates	Pack Date	Lot
0184415	1915621A	Fast	R&G 161	JJ Harvesting	06/02/2020 - 06/09/2020	06/16/2020, 06/22/2020	533
0189022	1915874A	Fast	R&G 161	JJ Harvesting	06/02/2020 - 06/09/2020	06/19/2020	533

Two fields were identified for the implicated red onions in this leg.

• Pepper 22 (Holtville, CA)

o 32°53'22.2" N − 115°22'9" W

R&G Field 161 (Bakersfield, CA)

o 35°24'22" N − 119°11'25" W

Traceback Leg 3 (Sysco (b)(4) POS Leg)

Point-of Service:

(b) (4)

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Thomson International Inc. LLC; 11220 S. Vineland Rd., Bakersfield, CA 93307-9489

(b)(4)

This (b) (4) is located at (b) (4)

There were two lab-confirmed cases associated with this POS with the same illness onset date of 07/06/2020. Exposure information was not available for either case.

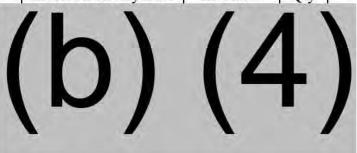
FDA Human and Animal Foods Division 4 West (Denver District Office) worked with the Arizona Department of Health Services to collect records from (b) (4) . FDA Human and Animal Foods Division 3 West (Dallas District Office) collected records related to this facility from Sysco (b) (4) as a part of eNSpect assignment # 167287.

(b) (4) received red onions from their distributor (b)(4)

FROM: (b)(4)

Product Description: 25 LB IMPFRSH ONION RED JMBO FRSH BOX

Invoice Delivery Date Invoice #



The bolded lots above were implicated because they would have been available at (b) (4) within three weeks of the case patients' illness onset date.

Sysco (b)(4) (AZ)(b)(4)

Sysco Arizona, Inc. is located at 611 South 80th Ave., Tolleson, AZ 85353-4025.

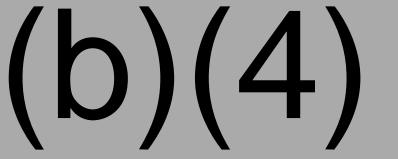
FDA Human and Animal Foods Division 3 West (Dallas District Office) collected records related to this distributor from Sysco (b) (4) (b) (4) as a part of eNSpect assignment # 167287.

Sysco Arizona, Inc. received red onions from Thomson International Inc. (Bakersfield, CA) via distributor Onions 52 Inc (Syracuse, UT), (b) (4) via Onions 52 Inc (Calipatria, CA), and Thomson International Inc. (Bakersfield, CA) via both Onions 52 Inc (Syracuse, UT) and (b) (4)

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FROM: Onions 52 Inc

Product Description: US#1 Carton 25 lb Jumbo Red Conv Globe Type Onions Produce of USA



The bolded lots above were implicated because they would have been available to supply the implicated shipments to the POS. A single shipment with red onions from (b)(4), NC) via Onions 52 Inc (Calipatria, CA) had a delivery date (b)(4) before the first implicated shipment at (b)(4) and was not implicated. A single shipment from Thomson International Inc. (Bakersfield, CA) via both Onions 52 Inc (Syracuse, UT) and (b) (4) was delivered after the case onset date and was not implicated.

Onions 52 Inc (Syracuse, UT) [FEI: 3016800010]

Onions 52 Inc is located at 800 S. 2000 W., Syracuse, UT 84075-6924.

FDA Human and Animal Foods Division 4 West (Denver District Office) collected information and records related to this distributor as a part of eNSpect assignment # 167509.

Onions 52 Inc has a sales arrangement with Thomson International Inc, LLC (Bakersfield, CA).

Thomson International Inc. LLC (Bakersfield, CA) [FEI: 3004391505]

Thomson International Inc<del>, LLC</del> is located at 11220 S. Vineland Rd., Bakersfield, CA 93307-9489.

FDA Human and Animal Foods Division 5 West (San Francisco District Office) and the California Department of Food and Agriculture performed an investigation with record collection and environmental sampling as a part of FACTS assignment # 12055268. FDA Office of Regulatory Affairs Produce Safety Network, FDA Human and Animal Foods Division 5 West (San Francisco District Office), the California Department of Public Health, and the California Department of Food and Agriculture performed a root cause investigation with record collection and environmental, product, and water sampling as a part of FACTS assignment # 12055297.

Field-level information was not requested for this leg because the traceback information was not available until after the data collection at Thomson International Inc<del>, LLC</del> occurred.

# Traceback Leg 4 (b) (4)

Point-of Service:

• (b) (4)

**Endpoints:** 

- (b) (4)
- Thomson International Inc. LLC; 11220 S. Vineland Rd., Bakersfield, CA 93307-9489

# (b)(4)

This restaurant is located at (b) (4)

There were three labconfirmed cases associated with this POS with meal dates of 07/09/2020, 07/14/2020, and
07/15/2020. The cases reported eating grilled chicken with red onions, a hot and spicy buffalo
chicken salad with red onions, and a cheeseburger with red onions, respectively.

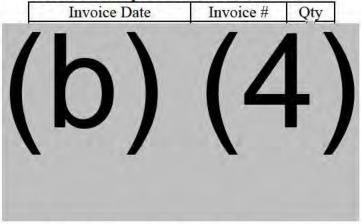
FDA Human and Animal Foods Division 2 East (Baltimore District Office) worked with the Maryland Department of Health and the Cecil County Health Department to collect records and information from the restaurant.

(b) (4) received red onions from their distributor (b) (4)

The restaurant indicated that it utilizes a first-in/first-out practice for its onions.

FROM: (b) (4)

Product Description: Onions Red Jumbo



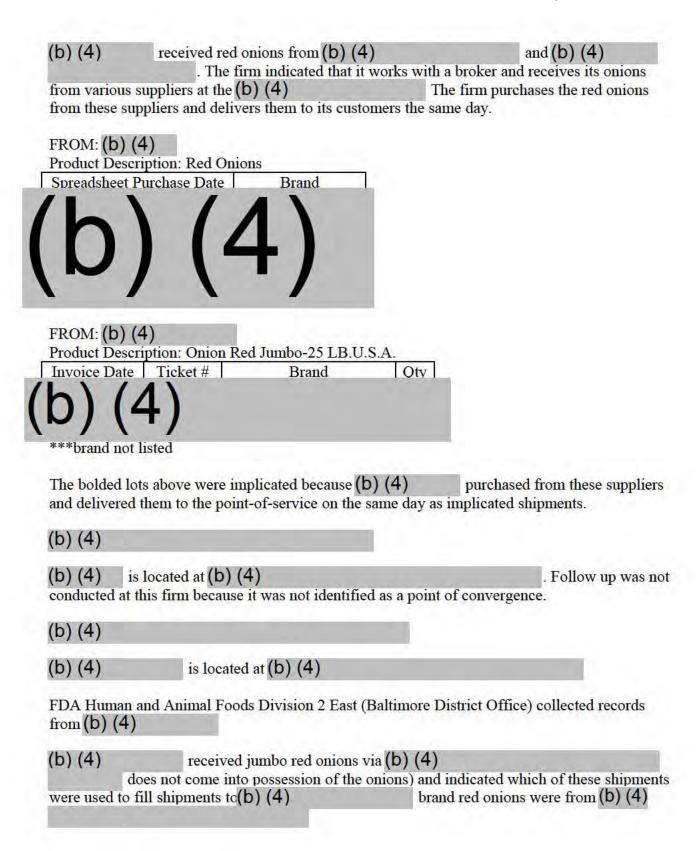
The bolded lots above were implicated because they would have been available at the restaurant within two weeks of the case patients' meal dates.

(b)(4)

(b) (4) is located at (b) (4)

FDA Human and Animal Foods Division 2 East (New Jersey District Office) collected records from this distributor.

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VIA:(b) (4) Product Description: 25 LB. US#1 JUMBO RED ONIONS BOL Delivery Date | Invoice # Brand Qty The bolded lots above were implicated because (b) (4) indicated that they were used to fill the implicated shipments sent to (b) (4) brand filled the (b) (4) invoice shipment and the (b) (4) and (b) (4) invoice shipments to (b)(4) . TLC brand onions are packaged by Thomson International Inc. LLC (Bakersfield, CA). FROM: (b) (4) Product Description: Onions 25# Jumbo Red US #1 Onions Invoice # | Qty Invoice Date (b)(4)(b)(4)(b)(4)is located at (b) (4) (b)(4)and did not have possession of the onions. The (b) (4) red onions were sourced (b) (4) Minkus Family Farm Inc (New Hampton, NY) (b) (4) Minkus Family Farm Inc is located at 101 Celery Ave., New Hampton, NY 10958-2203. Minkus Family Farm Inc is a customer of Onions 52 Inc (Syracuse, UT) and received onions that were a part of Thomson International Inc. LLC's recall related to this investigation. Onions 52 Inc (Syracuse, UT) [FEI: 3016800010] Onions 52 Inc is located at 800 S. 2000 W., Syracuse, UT 84075-6924. Onions 52 Inc has a sales arrangement with Thomson International Inc. LLC (Bakersfield, CA). Thomson International Inc. LLC (Bakersfield, CA) [FEI: 3004391505] Thomson International Inc. LLC is located at 11220 S. Vineland Rd., Bakersfield, CA 93307-9489. FDA Human and Animal Foods Division 5 West (San Francisco District Office) and the California Department of Food and Agriculture performed an investigation with record collection and environmental sampling as a part of FACTS assignment # 12055268. FDA Office of Regulatory Affairs Produce Safety Network, FDA Human and Animal Foods Division 5 West

(San Francisco District Office), the California Department of Public Health, and the California Department of Food and Agriculture performed a root cause investigation with record collection and environmental, product, and water sampling as a part of FACTS assignment # 12055297.

Lot information was not identified for the implicated onions from this leg of traceback. The implicated shipment in this leg was identified after relevant records were requested from Onions 52 Inc and Thomson International Inc. LLC.

## Additional Traceback and Traceforward Information

The above four legs of traceback were performed on the confirmed vehicle of red onions. Exposures to other colors of onions were identified by CDC and state partners. The California Department of Public Health and the Michigan Department of Agriculture & Rural Development performed traceback of yellow onions for seven points-of-service.

```
The California Department of Public Health traced onions (red and yellow) from (b) (4)
                                                                       had seven confirmed
cases, (b) (4)
                                                                       had three confirmed
cases, (b) (4)
                                                                      had three confirmed
cases, and (b) (4)
                                                                  had three confirmed cases.
(b) (4)
                      received yellow onions that were sourced (b) (4)
               and Thomson brand yellow onions from Onions 52. (b) (4)
received yellow onions that were sourced (b) (4)
                                                                           (b)(4)
              and Onions 52. (b) (4)
(b) (4)
                                                 received yellow onions that were sourced
(b) (4)
                                                              Onions 52, and (b) (4)
                            received yellow onions that were sourced (b) (4)
              and red onions that were sourced (b) (4)
traceback for these legs was limited by recordkeeping, especially at the level of the suppliers to
the points-of-service.
The Michigan Department of Agriculture & Rural Development traced yellow onions from (b) (4)
                                                                    had three confirmed
cases, (b) (4)
                                                                              ) had two
confirmed cases, and (b) (4)
                                                                                 ) had six
confirmed cases. (b) (4) received yellow onions that were sourced (b) (4)
                                                   , and Thomson International (Bakersfield,
CA) via Onions 52. (b)(4)
                                           received yellow onions that were sourced back to
Thomson International (Bakersfield, CA) via Onions 52. (b) (4)
                                                                     received vellow onions
that were sourced back to (b)(4)
                                                    , IL) and Anthony Marano Company
(Chicago, IL; a customer of Onions 52).
```

Through the recall audit check procedures, traceforward information was obtained describing customer lists that received recalled onions. A traceforward product flow diagram was produced showing Thomson International Inc. LLC's direct customers, as well as the supply chains for the four legs of red onion traceback, and the yellow onion tracebacks performed by the California Department of Public Health and the Michigan Department of Agriculture & Rural

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Development. The points-of-service identified in the traceforward product flow diagram indicate if red and/or yellow onions sourced from Thomson International Inc, LLC were known to have been supplied at some time; this does not indicate if the onions were the onions that were consumed by the cases, just known distribution. Additional grocery companies identified in the recall audit check and downstream recalls included: ALDI, Food Lion, Giant Food, Hello Fresh, Imperfect Foods, Kroger, Publix Super Markets, Stop & Shop, Walmart, and WinCo.

# Conclusion

The traceback investigation identified four legs of distribution for red onions served at ten points-of-service. Thomson International Inc (Bakersfield, CA) was identified as the source of the red onions based on convergence of the legs of traceback. Additional information from traceback investigations performed by the Canadian Food Inspection Agency, the California Department of Public Health and the Michigan Department of Agriculture & Rural Development support this conclusion

# Limitations

This traceback investigation was limited by the exposure information provided by cases in identified clusters, the size of illness clusters identified, limited supply chain diversity identified, and lack of adequate recordkeeping. Epidemiologic information regarding case exposures was limited when cases were unable to recall the type of onions consumed. The majority of the clusters, nine of ten, were less than four cases per point-of-service. Three of the four legs of red onion traceback were through various Sysco distribution centers and did represent a broader diversity of supply chains.

Records were not available or were incomplete at some points along the distribution chains: one point-of-service did not identify Sysco as a supplier, but later records from Sysco identified it as such; records at Thomson International Inc, LLC for field level information were known to be incorrect and information used in this traceback was the best information that the firm could identify.

### Attachments

Traceback Timeline

Master & Detailed Traceback and Traceforward Diagrams

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Appendix B: Red onion exposures and details based on exposures reported by confirmed cases, purchase records and restaurant/retirement residence menus and invoices (includes cases who answered red onion question, were part of a cluster, or reported a meal at a restaurant supplied by Sysco)

Case ID	Onset	Collection	Reported Red Onion Exposure	Cluster Case	Cluster Name	Cluster Role	Date of Cluster Meal	Cluster Supplied by Sysco	Restaurant Name (non-cluster)	Restaurant Meal Contained Red Onions	Restaurant Supplied Red Onions by Sysco
Retirem	ent Residence (	lusters **Note	BC-29 is a	resident o	of (b) (4) and also rep	orted restau	rant exposures				
BC-29		2020-07-13	Υ	Yes	/1 \ / 4 \	Resident		(b) (4)	(b)(4)		(b)(4)
BC-29		2020-07-13	Υ	Yes	(h)	Resident		(0) (1)			(2)(1)
AB-32	2020-07-02	2020-07-08		Yes		Resident					
AB-33	2020-06-15	2020-07-11		Yes	(	Resident					
AB-31	2020-07-01	2020-07-01		Yes		Resident			100		
BC-07	2020-07-13	2020-07-13		Yes		Resident					
BC-25	2020-07-09	2020-07-14		Yes	t-	Resident					
AB-47	2020-07-07	2020-07-07		Yes	0	Resident					
AB-56	2020-07-05	2020-07-10		Yes		Resident					
AB-45	2020-07-08	2020-07-08		Yes		Resident					
AB-26	2020-06-27	2020-06-29		Yes		Resident					
AB-27	2020-06-25	2020-06-30		Yes		Resident					
AB-28	2020-06-24	2020-06-29		Yes		Resident					
AB-29	2020-07-04	2020-07-06		Yes		Resident					
AB-30	2020-06-22	2020-06-29		Yes	n a	Resident					
BC-06	2020-07-09	2020-07-11		Yes		Resident					
AB-42	2020-07-02	2020-07-06		Yes		Resident					
AB-43	2020-07-04	2020-07-07		Yes	ir .	Resident					
AB-34	2020-06-30	2020-07-03		Yes	0	Staff					
	ant Clusters										
AB-64	2020-07-07	2020-07-10	Υ	Yes	V (	Patron	2020-07-04				
AB-65	2020-07-09	2020-07-10		Yes	n -	Patron	2020-07-04				
AB-63	2020-07-07	2020-07-08	Р	Yes	(training)	Staff	2020-07-02				
ON-02	2020-07-11		Υ	Yes		Patron	2020-07-08				
BC-18	2020-07-04	2020-07-06		Yes		Patron	2020-06-28		11 :		

Case ID	Onset	Collection	Reported Red Onion Exposure	Cluster Case	Cluster Name	Cluster Role	Date of Cluster Meal	Cluster Supplied by Sysco	Restaurant Name (non-cluster)	Restaurant Meal Contained Red Onions	Restaurant Supplied Red Onions by Sysco
BC-21	2020-07-01	2020-07-04	Υ	Yes	/1- \ / / \	Patron	2020-06-28	(b) (4)	(h) (1)		(b) (4
AB-113	2020-06-30	2020-06-30	Υ	Yes	(n)	Patron	2020-06-27	(-) (-)	(0)(4)		(-) ( -
AB-15	2020-06-29	2020-07-02	DK	Yes	(U)(T)	Patron	2020-06-27		'''		
AB-16	2020-07-02	2020-07-06	Υ	Yes	( ) ( )	Patron	2020-06-30				
AB-84	2020-06-30	2020-07-02	Υ	Yes		Patron	2020-06-26				
AB-61	2020-06-28	2020-07-07		Yes		Patron	2020-06-27				
AB-62	2020-07-04	2020-07-08	Υ	Yes		Staff					<u>.</u>
AB-75	2020-07-01	2020-07-04	Υ	Yes		Patron	2020-06-30				
AB-104	2020-07-03	2020-07-06	Υ	Yes		Staff	2020-07-01				
AB-76	2020-06-30	2020-07-04	Υ	Yes		Patron	2020-06-24				
BC-12	2020-07-02	2020-07-10	Υ	Yes	18,-	Patron					
BC-15	2020-07-01	2020-07-08	Υ	Yes		Patron					
BC-13	2020-07-02	2020-07-10	Υ	Yes		Patron	2020-06-28	S			
BC-26	2020-07-07	2020-07-13		Yes		Patron	2020-06-28	ķ.			
AB-70	2020-07-06	2020-07-09		Yes		Patron	2020-07-03				
AB-70	2020-07-06	2020-07-09		Yes		Patron	2020-07-03				
AB-107	2020-07-03	2020-07-06	P	Yes		Patron	2020-06-29				
AB-116	2020-07-02	2020-07-05	Υ	Yes		Patron	2020-06-30				<u></u>
Non-Clus	ster Cases with	Red Onion Exp	osure Infor	mation							
SK-04	2020-07-10		Υ							Υ	1
BC-17	2020-06-30	2020-07-08							11 11 11		
BC-24	2020-06-28	2020-07-04	Υ							Υ	
BC-41	2020-07-07		Р								
MB-06	2020-07-05		DK		(5)						
MB-09	2020-07-10		Υ							Υ	
ON-01	2020-07-06	2020-07-06	γ		19					Υ	1

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Case ID	Onset	Collection	Reported Red Onion Exposure	Cluster Case	Cluster Name	Cluster Role	Date of Cluster Meal	Cluster Supplied by Sysco	Restaurant Name (non-cluster)	Restaurant Meal Contained Red Onions	Restaurant Supplied Red Onions by Sysco
MB-09	2020-07-10		Υ						(h) (1)	Υ	(b) (4)
AB-86	2020-06-27	2020-07-30	Υ						(b) (4)	Υ	(~) (
AB-117	2020-07-06	2020-07-06									
AB-82	2020-06-29	2020-07-01	Υ							Υ	
AB-114	2020-07-07	2020-07-07	Y							Υ	
MB-06	2020-07-05		DK			Contraction of the Contraction o					
BC-14	2020-07-06	2020-07-09	Υ					-		Υ	
BC-51		2020-07-17									
BC-49	2020-07-10	2020-07-15	Υ							Υ	
AB-109	2020-07-08	2020-07-09	Υ							Υ	
BC-40	2020-07-18										
MB-03	2020-07-05		Υ							Υ	
BC-49	2020-07-10	2020-07-15	Υ							Ý	
BC-09	2020-07-05	2020-07-09	Υ							Υ	
AB-90	2020-06-26	2020-06-29	Р								
BC-23	2020-06-30	2020-07-07									
MB-05	2020-07-10										
BC-14	2020-07-06	2020-07-09	Υ							Υ	
MB-07	2020-07-05		Υ							Υ	
AB-87	2020-06-22	2020-06-30	Υ							Υ	
BC-41	2020-07-07		Р								
AB-89	2020-06-26	2020-07-05									
MB-01	2020-07-03		Υ							Υ	
BC-03	2020-07-05	2020-07-08									
AB-80	2020-07-02	2020-07-03		04		Tolk Ford					100

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Case ID	Onset		Reported Red Onion Exposure	Cluster Case	Cluster Name	Cluster Role	Date of Cluster Meal	Cluster Supplied by Sysco	Restaurant Name (non-cluster)	Restaurant Meal Contained Red Onions	Restaurant Supplied Red Onions by Sysco
AB-90	2020-06-26	2020-06-29	Р						(b)(4)		(b) (4
AB-03	2020-07-08								(-) (-)		
BC-04	2020-07-09	2020-07-12	DK								
AB-01	2020-06-24	2020-06-25	Р	Di di di				sia.			
AB-81	2020-07-01	2020-07-02	Р								
BC-05	2020-07-03	2020-07-09	P								1
AB-106	2020-07-02	2020-07-07	Υ								
AB-79	2020-07-01	2020-07-03	Υ								
AB-85	2020-07-01	2020-07-03	Y								
BC-19	2020-06-30	2020-07-03	Υ			100					
MB-14	2020-07-14		Y						3		

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Appendix B: "Most likely" onion exposure for each confirmed case with sufficient information; including details of exposure location, variety of onions, purchase records, and links to Thomson International

natid	Туре	Reported Exposure	Store / Facility Name	Supplier	Purchase records available	Appears on purchase records	Links to Thomson	Address	Date	Raw/ Cooked	Cluster	Cluster Role
Confirme	d cases v	vith most likel	y onion exposure at a resid	ential facility								
AB-58	Red	М	/1 \ /	41			γ	11 \ / /			Υ	Residen
BC-29	Red	Υ	(b) (	$\Lambda$			Υ	(b) (4	1		Υ	Resident
DC 06	Red	М	1011	4)			v	1) 1 (4			v	Resident
BC-86 AB-20	Red	M	1.0	- /	-		v				v	Residen
AB-20 AB-32	Red	M					v				V	Residen
AB-33	Red	M					v				V	Residen
AB-34	Red	M					Y				Υ	Staff
AB-35	Red	M					Υ				Υ	Residen
AB-21	Red	M					Υ				Υ	Residen
AB-37	Red	М					Υ				Υ	Resident
PE-01	Other	P	16				Υ			Cooked		Staff
AB-181	Other	DK					Υ					Residen
AB-36	Red	M	1				Y				Υ	Residen
AB-31	Red	M					Υ		1		Υ	Resident
BC-07	Red	М					Υ				Υ	Resident
BC-25	Red	M					Υ				Υ	Residen
BC-87	Other						Υ			Raw	100	Staff
AB-12	Red	М					Υ				Υ	Resident
AB-13	Red	M					Υ		100		Υ	Residen
AB-47	Red	М					ν				٧	Resident

natid	Туре	Reported Exposure	Store / Facility Name	Supplier	Purchase records available	Appears on purchase records	Links to Thomson	Address	Date	Raw/ Cooked	Cluster	Cluster Role
AB-48	Red	М	(b) (	4)			Y	(b)(4)			Υ	Resident
AB-49	Red	М	(D)	TI			γ	101141			Υ	Resident
AB-50	Red	М					Υ	( ) ( )			Υ	Resident
AB-51	Red	М					Υ				Υ	Resident
AB-52	Red	М	4				Υ				Υ	Resident
AB-53	Red	М					Υ				Υ	Resident
AB-54	Red	М					Υ				Υ	Resident
AB-55	Red	М					γ				Υ	Resident
AB-56	Red	М					Υ				Υ	Resident
AB-57	Red	М					Υ				Υ	Resident
AB-121	Red	M					Υ			7	Υ	Staff
AB-41	Red	DK					Υ				Υ	Staff
AB-39	Red	М					Y				Y	Staff
AB-128	Red	М					Υ				Υ	Resident
AB-45	Red	М	1				Υ				Υ	Resident
AB-46	Red	М					Υ				Υ	Resident

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natid	Туре	Reported Exposure	Store / Facility Name	Supplier	Purchase records available	on	Links to Thomson	Address	Date	Raw/ Cooked	Cluster	Cluster Role
AB-17	Red	м	(b) (	1)			Y	(b) (4)			Υ	Resident
AB-18	Red	M		7	/		Y	(D)(4)			Y	Staff
AB-26	Red	M					Υ				Υ	Residen
AB-27	Red	M					Υ				Υ	Residen
AB-28	Red	M					γ				Y	Residen
AB-29	Red	M					Υ				Υ	Residen
AB-30	Red	М					Υ				Υ	Resider
AB-22	Red	м					Υ		1		Υ	Residen
AB-23	Red	М					γ				Υ	Resider
AB-24	Red	М					Υ		1		Υ	Reside
AB-40	Red	М			-		Y		-		Υ	Reside
BC-06	Red	м			<u></u>		Υ				Υ	Reside
AB-38	Red	M					Υ				Υ	Reside
AB-19	Red	M				7	γ				Y	Reside
AB-42	Red	M				4	γ				Υ	Reside
AB-43	Red	M					Υ	(Colored Colored Color			Υ	Reside
AB-44	Red	М					Υ				Υ	Reside
		with most lik			-	-			The state of the s	1		
ON-03	Red	IM					3 of 10		2020-07-11			

natid	Туре	Reported Exposure	Store / Facility Name	Supplier	Purchase records available	Appears on purchase records	Links to Thomson	Add	ress	Date	Raw/ Cooked	Cluster	Cluster Role
AB-08	White	Υ	/1 \ /	41		records		/1 \	1 4		Raw		
AB-112	White	Υ	1h1					$I \cap I$			Raw		
BC-11	White	Υ		41						2020-06-28	Raw		
BC-64	White	Υ	(b) (	• /			-	(b)		1	Raw		0
BC-41	Other	M		-			Υ	\ /	1	2020-07-04			
AB-179	Red	Υ					Υ				Raw	Υ	Patron
SK-04	Red	Υ					Υ			2020-07-07	Raw		
BC-61	Other	DK					Υ						
BC-24	Red	Υ								2020-06-28	Raw	Υ	Patron
BC-17	Red	DK					Υ						
BC-80	Red	Υ					Y			2020-07-14	Raw		4
AB-201	Red	Υ					Υ			2020-07-06	Raw		
AB-01	Other	DK					Υ						
AB-152	Red	DK					Υ						
AB-183	Other	DK					Р						
AB-63	Red	M					Υ			2020-07-02		Υ	Staff
AB-64	Red	Υ			1		Υ			2020-07-04	Raw	Υ	Patron
AB-65	Other	DK					Υ			2020-07-04			
MB-02	Other						Υ						
MB-08	Other						Р						
MB-09	Red	Υ					Υ			2020-07-05			
MB-12	Red	DK											
ON-01	Red	Υ					Υ			2020-06-30	Raw	Υ	Patron
ON-02	Red	Υ					Υ			2020-07-08		Υ	Patron
BC-18	Red	M					Υ			2020-06-28		Υ	Patron

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natid	Туре	Reported Exposure	Store / Facility Name	Supplier	Purchase records available	Appears on purchase records	Links to Thomson	Address	Date	Raw/ Cooked	Cluster	Cluster Role
BC-21	Red	М	161/	11		1000103	Υ	/1_ \ / /	2020-06-28	Raw	Υ	Patron
AB-171	Red	Υ	(b) (	4)				(b) (4	2020-07-10	Raw		
AB-173	Other	DK	10/	- /			Υ					
AB-86	Red	Υ		#			Υ	1.0	2020-06-26	Raw		
SK-09	Other	DK			-		Υ	, , ,				
B-142	Other	DK					Υ					
AB-59	Red	DK					Υ		2020-07-02			
AB-60	Red	М					Υ		2020-07-04		Υ	Patron
BC-69	White	Υ					Υ			Raw		
AB-134	Other	DK					Υ					
3C-85	Other	DK					γ					
AB-114	Red	Y					Υ					
AB-78	Red	Υ					Y		2020-07-28	Raw		
AB-82	Red	Υ					Υ		2020-06-28	Raw		
AB-88	Other	DK					Υ					
3C-79	Red	Υ					Y			Raw	Υ	Patron
b-113	Red	Y					Y		2020-06-27		Υ	Patron
B-15	Red	DK					Υ		2020-06-27	Raw	Υ	Patron
B-16	Red	Υ					Υ		2020-06-30	Raw	Υ	Patron
B-84	Red	M					Υ		2020-06-26		Υ	Patron
QC-03	White						Υ			Raw		
/B-06	White	1.100					Υ			Raw		
K-02	White	N					Υ		2020-07-13			

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natid	Туре	Reported Exposure	Store / Facility Name	Supplier	Purchase records available	Appears on purchase records	Links to Thomson	Address	Date	Raw/ Cooked	Cluster	Cluster Role
QC-04	Red	Υ	/h\ /	1				/1 \ / 4 \	\ <u></u>			
AB-184	Red	Υ	(b) (	4)			Y	(b)(4)	2020-07-11	Raw	. 1	
SK-05	Red	P	( )	- /								
BC-51	Other	DK				1	Υ		2020-07-12			
BC-28	White	P					Υ	1 / 1	2020-07-09	Cooked		
AB-25	Other	DK					Y		2020-07-13		Υ	Patron
AB-61	Red	DK			-		Υ		2020-06-27		Υ	Patron
AB-62	Other	N					Υ		2020-06-27		Υ	Staff
AB-196	Red	Υ							2020-07-04	Raw		
AB-119	Red	Υ					Υ		2020-07-05	Raw		
AB-159	Red	Υ					Υ		2020-07-07	Raw		
BC-89	White	DK					Y			Cooked		
BC-49	Red	Υ					Υ		2020-07-03	Raw		
SK-07	Red	Υ				1	Υ		2020-07-16	Raw		
AB-77	White	Υ					Υ			Cooked		
AB-109	Red	Υ							2020-06-29			
BC-53	Red	P							2020-07-14	Raw		
AB-06	Other	DK					Υ					
BC-04	Red	M										
BC-33	Red	P					Υ			Raw		
BC-40	Red	P					Υ		2020-07-18	Raw		
BC-60	White	Р							2020-07-17			
AB-72	Other	Υ			-				2020-07-07	Raw		
AB-75	Red	Υ			P		Υ		2020-06-30	Raw	Υ	Patron
AB-104	Red	Υ					Υ		2020-07-01	Raw	Υ	Staff
AB-180	Other	DK			Service of		D					

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natid	Туре	Reported Exposure	Store / Facility Name	Supplier	Purchase records available	Appears on purchase records	Links to Thomson	Address	Date	Raw/ Cooked	Cluster	Cluster Role
MB-03	Red	Υ	/b/ /	1			Υ	/1- \ / 4 \	2020-07-03	Raw		
AB-210	Red	Υ	(b) (	4)			Υ	(b)(4)	2020-07-12	Raw	Υ	Patron
AB-211	Red	Υ	1.	- /			Υ		2020-07-13	Raw	Υ	Patron
AB-124	Red	Υ					Υ	\ / \ /		Raw	Υ	Patron
AB-136	Red	Υ					Υ		2020-07-06	Raw	Υ	Patron
AB-150	Red	DK			-		Υ		-			
AB-209	Red	Υ					Υ		2020-07-19	Raw	Υ	
BC-09	Red	Υ					Υ			Raw		
SK-19	Red	М					Υ		2020-07-11	Raw	Υ	Patron
AB-141	Red	Υ					Υ			Raw	Υ	Patron
AB-76	Red	М					Y		2020-06-24	Raw	Y	Patron
AB-140	Red	Y					V			Raw	Y	Patron
AB-90	Other	Υ					Υ		2020-06-24			
3C-23	Other	DK					Υ		2020-06-27			
MB-05	Other						Υ		2020-07-08			
BC-73	Red	Υ					Υ					
BC-76	Other	N					Р					
AB-118	Other	P					Υ		2020-07-11			
AB-147	Red	Υ							2020-07-05	Raw		
BC-14	Red	Υ					Υ			Raw	Υ	Patron
BC-65	Red	Υ					V		2020-07-15	Raw		

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natid	Type	Reported Exposure	Store / Facility Name	Supplier	Purchase records available	Appears on purchase records	Links to Thomson	Address	Date	Raw/ Cooked	Cluster	Cluster Role
MB-07	Red	Υ	11-1/	11			Υ	/1 \ / 4	2020-07-07			0
AB-87	Red	Υ	$I \cap I$				Υ	161/	2020-06-20	Raw		
QC-01	White	Υ	(D)	4)				(b) (4)		Cooked		
BC-12	Red	Υ	1 1				Υ	1011	2020-07-01	Cooked	Υ	Patron
BC-15	Red	P					Υ	1 / 1	2020-07-01		Υ	Patron
AB-89	Other	DK					Υ					
AB-153	Red	Υ								Raw		
AB-218	Red	Υ							2020-07-10	Raw	-	
AB-221	Red	Υ								Raw		
AB-230	Red	Υ					- (		2020-07-13	Raw		
BC-67	Red	Υ										
MB-01	Red	Υ							2020-06-26	Raw		
AB-132	Red	Υ					Υ		2020-07-04	Raw	Υ	Patron
AB-143	Red	DK					Υ				Υ	Patron
AB-66	Red	Υ					Υ		2020-07-05	Raw	Υ	Patron
AB-67	Other						Υ		2020-07-05		Υ	Patron
AB-68	Other	DK					Υ		2020-07-05		Υ	Patron
AB-69	Red	Υ					Υ		2020-07-04	Raw	Υ	Patron
AB-74	Red	M					Υ		2020-07-05	Raw	Υ	Patron
BC-13	Red	Υ			-		Υ		2020-06-28	Raw	Υ	Patron
BC-26	White						Υ		2020-06-28	Raw	Υ	Patron
BC-47	Other						Υ		_			
BC-03	Other						Υ					
AB-145	Red	Υ							-	Raw		
BC-78	Red	Υ					Υ		2020-07-16	Raw		
AB-80	Other	N					Υ					

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natid	Туре	Reported Exposure	Store / Facility Name	Supplier	Purchase records available	Appears on purchase records	Links to Thomson	Address	Date	Raw/ Cooked	Cluster	Cluster Role
MB-14	Red	Р	11-1/	1		records	Υ	/1 \	2020-07-11	Raw		
AB-133	Red	Υ	(b) (					<b>         </b>	2020-08-17	Raw	Υ	Patron
AB-70	Other	DK		41	1		Υ		2020-07-03		Υ	Patron
AB-71	Red	Υ	1.01	-			Υ		2020-07-06	Raw	Υ	Patron
SK-01	Other	P	, , ,				Υ	(b) (	2020-07-06	Cooked		
BC-56	Red	р					Υ			Cooked	Υ	Patron
BC-70	White	Υ								Raw	Υ	Patron
3C-81	Red	Υ					Υ				Υ	Patron
3C-38	Red	Υ		140	L							
AB-107	Red	M		100					2020-06-29		Υ	Patron
AB-116	Red	Υ		- 0.0			Υ		2020-06-30	Raw	Υ	Patron
BC-72	Red	Υ					Υ		2020-07-10	Raw		
BC-71	Red	Y				1	Υ					
AB-07	Other	Р					Υ		2020-07-02			
AB-222	White	Υ							2020-07-08	Raw		
AB-233	Red	Υ							2020-07-12	Raw		
BC-57	Other						Υ		2020-07-12			
AB-225	White			10,								
Confirme	d cases v	with "most li										
AB-227	Red	Υ										y
AB-229	Red	Υ					-		-	Raw		
QC-02	Other	A 100								Cooked		
AB-106	Red	Υ								Cooked		
AB-224	White	Υ								Raw		

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natid	Туре	Reported Exposure	Store / Facility Name	Supplier	Purchase records available	Appears on purchase records	Links to Thomson	Address	Date	Raw/ Cooked	Cluster	Cluster Role
AB-79	Red	Υ	/1_\ /	11		7000140		/1_ \ / A		17		
AB-81	Red	Y		4)				(b) (4		Raw		
B-85	Red	Y	(D)	-			2	(				
C-68	Red	Υ	1.0	- /					2020-07-12	Raw		
B-178	Red	Υ		-					1			
AB-234	Red	P							-			
8C-08	Red	DK			Υ	Υ						
C-16	Red	DK			Υ	Υ			2020-06-04			
C-19	White	DK			Υ	Υ			2020-06-20			
3C-31	Red	Υ			Υ	Υ			2020-06-26	(		
3C-32	Red	Υ							2020-05-14			
3C-45	Other	DK			Υ	Υ			2020-05-12			
C-63	Red	Υ			Υ	N	1					
C-74	Red	Υ			Υ	Υ	a 10		2020-07-17	Raw		
3C-77	Red	Y										
C-88	Red	Y			N		Υ			Raw		
/IB-11	White	Υ								Raw		
C-75	White	Υ								Cooked		
C-66	White											
C-84	Red	DK										
K-03	Red	Υ							2020-07-02	Raw		
K-06	Other								-			
B-226	Red	Υ							2020-07-15	Raw		
C-05	Red	M					Υ			Raw		

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Appendix B: "Most likely" onion exposure for each confirmed case with sufficient information; including details of exposure location, variety of onions, purchase records, and links to Thomson International

National ID	Туре	Reported exposure	Store / Facility Name	Supplier	Purchase records available	Appears on purchase records	Links to Thomson	Address	Date	Raw/Cooked	Cluster	Cluster Role
Confirmed AB-58	Red	ith most likely M	onion exposure at a residentia	l facility			У	/1 \ / 4 \			Y	Resident
BC-29	Red	Υ	(h)	4)			Υ	(b) (4)			Y	Resident
BC-86	Other	DK	(D)	7			Υ	()			Υ	Resident
AB-20	Red	М					Υ				Y	Resident
AB-32	Red	DK					Υ				Υ	Resident
AB-33	Red	М					Υ				Υ	Resident
AB-34	Red	М					Υ				Υ	Staff
AB-35	Red	М					Y				Υ	Resident
AB-21	Red	М					Υ				Υ	Resident
AB-37	Red	М					Υ				Υ	Resident
PE-01	Other	P					Y			Cooked	Υ	Staff
AB-181	Other	DK					Υ					
AB-36	Red	М					Y				Υ	Resident
AB-31	Red	M					Υ				Υ	Resident
BC-44	Other	DK					Y				Y	Resident

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BC-07	Red	М	/h)	111	Y	(b) (4)	1	Y	Resident
BC-25	Red	М	(b)	(4)	Y	(0) (4		Υ	Resident
BC-35	Red	DK	1	, ,	Y			Y	Resident
BC-87	Other	DK			Υ		Raw	Υ	Staff
AB-12	Red	М			Υ			Y	Resident
AB-13	Red	М			Υ			Υ	Resident
AB-47	Red	M			Y			Υ	Resident
AB-48	Red	M			Y			Y	Resident
AB-49	Red	М			Y			γ	Resident
AB-50	Red	М			Y			Υ	Resident
AB-51	Red	M			Y			Υ	Resident
AB-52	Red	М			Y			Y	Resident
AB-53	Red	М			Υ			Y	Resident
AB-54	Red	М			Υ			Υ	Resident
AB-55	Red	DK			Y			Υ	Resident
AB-56	Red	М			Y			Υ	Resident
AB-57	Red	М			Y			γ	Resident

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Appendix B: "Most likely" onion exposure for each confirmed case with sufficient information; including details of exposure location, variety of onions, purchase records, and links to Thomson International

AB-198	White	P	/h)	111	Y	(h) (	1)		
AB-121	Red	М	IUI	(4)		(b) (4	+)	Υ	Resident
AB-41	Red	DK	1 /	\ /		X Z X		Υ	Staff
AB-39	Red	М			Y			Υ	Staff
AB-128	Red	М			Y			Y	Resident
AB-45	Red	м			Y			Υ	Resident
AB-46	Red	М			Y			Υ	Resident
AB-17	Red	M			Y			Υ	Resident
AB-18	Red	м			Ý			Υ	Staff
AB-26	Red	DK			Y			Υ	Resident
AB-27	Red	М			Y			Υ	Resident
AB-28	Red	М			Y			Υ	Resident
AB-29	Red	DK			Υ			γ	Resident
AB-30	Red	DK			Υ			Υ	Resident
AB-22	Red	М			Y			Υ	Resident
AB-23	Red	DK			Y			γ	Resident
AB-24	Red	м			Y			Υ	Resident

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Appendix B: "Most likely" onion exposure for each confirmed case with sufficient information; including details of exposure location, variety of onions, purchase records, and links to Thomson International

AB-40	Red	м	/h)	111	Y	(b)	(1)			Y	Resident
BC-06	Red	М	(D)	(4)	Y	(0)	(T)			γ	Resident
AB-38	Red	М	1 /	( )	Y					Υ	Resident
AB-19	Red	М			Y					Y	Resident
AB-42	Red	М			Υ					Υ	Resident
AB-43	Red	M			Y					Y	Resident
AB-44	Red	М			Υ					Y	Resident
	d cases w	ith most like						_			1
ON-03	Red	М						2020-07-11			
AB-08	White	Υ						1	Raw		
AB-112	White	Υ				0			Raw		
BC-101	Red	Υ									
BC-11	White	Υ						2020-06-28	Raw		
BC-95	White	Υ						2020-07-26	Raw	- 1	
BC-98	Red	Υ									
BC-41	Other	M			Y			2020-07-04			
MB-17	Red	Р			Y			2020-07-11	Cooked		
AB-179	Red	Υ			Y				Raw	Υ	Patron
SK-21	Red	М			Y			2020-07-06	Raw	Υ	Patron
SK-22	Red	Р			Y			2020-07-06	Raw	Υ	Patron
SK-24	Red	Υ			у			2020-07-13		Y	Patron

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Appendix B: "Most likely" onion exposure for each confirmed case with sufficient information; including details of exposure location, variety of onions, purchase records, and links to Thomson International

SK-04	Red	Y	/h) /1)	Y	(b) (4	2020-07-07	Raw		
BC-61	Other	DK	(1)	Y			0.7		
BC-24	Red	Υ	(b) (4) =		()	2020-06-28	Raw	Y	Patron
BC-17	Red	DK		Y					
BC-80	Red	Y		Y		2020-07-14	Raw		
AB-201	Red	Υ		Υ		2020-07-06	Raw		
AB-119	Red	Y		Y		2020-07-05	Raw		
AB-63	Red	М		Y		2020-07-02		Υ	Staff
AB-64	Red	Υ		Υ		2020-07-04	Raw	Y	Patron
AB-65	Other	DK		γ		2020-07-04		Υ	Patron
AB-01	Other	DK							
AB-152	Red	DK	<u> </u>						
AB-183	Other	DK							
AB-282	Red	M		Υ		2020-07-07	Raw		
BC-36	Other	DK				2020-07-10			
MB-02	Other	N		У					
MB-08	Other	DK					50		80
MB-09	Red	Υ		γ		2020-07-05			
MB-12	Red	DK						14	
SK-30	Red	p		Y		2020-07-17	due .	14	(y
ON-01	Red	Y		Y		2020-06-30	Raw	Y	Patron
ON-02	Red	Υ		Y		2020-07-08		Υ	Patron
BC-18	Red	М		Υ		2020-06-28		Υ	Patron
BC-21	Red	М		Υ		2020-06-28	Raw	Υ	Patron
AB-171	Red	Y				2020-07-10	Raw		

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Appendix B: "Most likely" onion exposure for each confirmed case with sufficient information; including details of exposure location, variety of onions, purchase records, and links to Thomson International

BC-08	Red	DK	/h)	(4)		Y	(b)	11	1			
ON-04	Red	Y		141		Y	$\neg \cup \cup \cup$		2020-07-12	617	- 6/4	12-1
AB-86	Red	Υ	\ D /			Υ	\ /		2020-06-26	Raw	<b>3</b> (): <b>3</b>	A WELL
SK-09	Other	DK	\ /	\ /		Υ						
AB-142	Other	DK				Υ						20
AB-60	Red	M				Y			2020-07-04		Υ	Patron
AB-149	Other	DK				Y			2020-06-08	10	- 7	1
AB-59	Red	DK				Υ			2020-07-02			
BC-69	White	Υ				Y				Raw		
AB-134	Other	DK			_ 11	Y						
BC-64	Red	Υ				N			2020-07-15			
BC-85	Other	DK				Υ						
ON-09	White	Υ								Cooked		
AB-114	Red	Υ				Υ				Tight and the second		
AB-78	Red	Υ				Y			2020-07-28	Raw		
AB-82	Red	Y				Y			2020-06-28	Raw		
AB-88	Other	DK		100		Y						
BC-79	Red	Υ				Υ				Raw	Υ	Patron
Ab-113	Red	Y				Y			2020-06-27		Y	Patron
AB-15	Red	DK				Υ			2020-06-27	Raw	Y	Patron
AB-16	Red	Υ				Υ			2020-06-30	Raw	Y	Patron
AB-84	Red	M				Υ			2020-06-26	1	Y	Patron
QC-03	Other	DK				Υ				Raw		
MB-06	White	М				Υ				Raw		

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AB-212	White	Y	11 \	1 4	1	Y	1/1-1	11	2020-07-05	Raw	1	Í
SK-02	White	N	$I \cap I$			Υ	$I \cap I$	14	2020-07-13			
QC-04	Red	Υ	(b)	(4			(b)	17				
BC-39	Red	Р	' '	-	/	Υ			2020-07-08	Cooked		
AB-184	Red	Υ				Υ			2020-07-11	Raw		
BC-51	Other	DK				Р			2020-07-12			
SK-05	Red	P							2020.01.22			
BC-28	White	Р				Υ			2020-07-09	Cooked		
AB-242	White	Υ								Raw		
AB-25	Other	DK				Υ			2020-07-13		Y	Patron
AB-61	Red	DK				Y			2020-06-27		Υ	Patron
AB-62	Other	N				γ			2020-06-27		Y	Staff
AB-196	Red	Υ	No.						2020-07-04	Raw		
AB-159	Red	Y				Υ			2020-07-07	Raw		
AB-251	Red	DK				Υ			2020-07-10			
BC-49	Red	Υ	01						2020-07-03	Raw		
AB-223	Red	M				Υ				Raw		
SK-16	Red	Р				Υ					Y	Patron
SK-07	Red	Υ				Y			2020-07-16	Raw		, acron
AB-77	White	Y				Y				Cooked	_(4	11
AB-109	Red	Υ				Υ			2020-06-29		- 5 H -	
BC-53	Red	Р							2020-07-14	Raw		
AB-06	Other	DK				Y			1			
BC-99	White	Υ				Υ			2020-07-26	Raw		1

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Appendix B: "Most likely" onion exposure for each confirmed case with sufficient information; including details of exposure location, variety of onions, purchase records, and links to Thomson International

AB-253	Red	Υ	/h)	11		Y	(h)	11	1	Raw		
BC-04	Red	М	(b)	(4			(b)	17	)			
BC-33	Red	Р	( )	1 - 1		Υ	1000			Raw		
BC-40	Red	P				Υ			2020-07-18	Raw		
BC-60	White	р							2020-07-17			
AB-72	Other	Υ							2020-07-07	Raw		
AB-75	Red	Υ				Υ			2020-06-30	Raw	Y	Patron
AB-104	Red	γ				Υ			2020-07-01	Raw	Y	Staff
AB-180	Red	Υ				Υ			2020-07-10			
MB-03	Red	Υ				Υ			2020-07-03	Raw		Out to
AB-210	Red	Υ				Υ			2020-07-12	Raw	Y	Resident
AB-211	Red	Υ				Y			2020-07-13	Raw	Y	Patron
AB-178	Other	DK				Υ			2020-07-09	Raw		
AB-232	Other	Р				Y						
BC-96	Red	γ										
AB-136	Red	Υ				Υ			2020-07-06	Raw	Y	Patron
AB-209	Red	Υ	0			Y			2020-07-19	Raw	Υ	Patron
AB-150	Red	DK	2		3	Υ				40-		
AB-275	Red	Υ				Υ			2020-07-08	Raw		144
AB-194	Red	Υ				Y			2020-07-04	Raw	Υ	Patron

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Appendix B: "Most likely" onion exposure for each confirmed case with sufficient information; including details of exposure location, variety of onions, purchase records, and links to Thomson International

BC-09	Red	Υ	11-1	111	-	Y	/h)	111		Raw		1
BC-55	Red	Υ	(b)	(4)		Y	(b)	(4)		Raw		
SK-19	Red	М				Y		1.1	2020-07-11	Raw	Υ	Patron
AB-124	Red	Υ				Y				Raw	Υ	Patron
AB-141	Red	Υ				Y				Raw	Υ	Patron
AB-76	Red	М				Y			2020-06-24	Raw	Υ	Patron
AB-140	Red	Y				Y				Raw		
AB-90	Other	Y				Y			2020-06-24			
BC-23	Other	DK				Y			2020-06-27			
BC-58	White	P				Y			2020-06-28	Raw		
MB-05	Other	М				Υ			2020-07-08			
BC-73	Red	Υ				Υ						
BC-76	Other	N				P						
AB-118	Other	Р				Y			2020-07-11			
AB-147	Red	Υ					- 1		2020-07-05	Raw		
BC-14	Red	Υ				Υ			12 -	Raw		
BC-54	Red	Y				Y				Raw		
BC-65	Red	Y				Y			2020-07-15	Raw		
MB-07	Red	Υ				Υ			2020-07-07			

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AB-87	Red	Y	(h)	111		Y	(h)	11	2020-06-20	Raw		
QC-01	White	Υ	(b)	(4)			(b)	(4)		Cooked		
AB-157	Red	Υ	1	' '		Y			2020-07-05	Raw		
BC-83	Other	Υ										
BC-12	Other	Y				Y			2020-07-01	Cooked	Υ	Patron
MB-16	Red	Υ								Raw		
BC-59	Red	Y				Y			2020-07-10			
AB-89	Other	DK				Υ						
AB-151	Red	Υ	1							Raw		
AB-153	Red	Y							2020-07-12	Raw		
AB-160	Red	Y							2020-07-08	Raw		
AB-177	Red	Y							2020-07-10	Raw		
AB-185	Red	Υ							2020-07-03	Raw		
AB-218	Red	Υ			March 1	14.			2020-07-10	Raw	40	0
AB-221	Red	Υ								Raw		
AB-230	Red	Υ	4		$\vdash$				2020-07-13	Raw		
BC-67	Red	Υ	4									
MB-01	Red	Υ	-				-		2020-06-26	Raw	_	
QC-11	Other	DK							2020-07-10			
AB-132	Red	γ				Y			2020-07-04	Raw	Υ	Patron
AB-143	Red	DK				Y					Υ	Patron

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Appendix B: "Most likely" onion exposure for each confirmed case with sufficient information; including details of exposure location, variety of onions, purchase records, and links to Thomson International

AB-66	Red	Y	(h) (1)	Y	(h) (	2020-07-05	Raw	Y	Patron
AB-67	Other	DK	(b)(4)	Y	(b) (	2020-07-05		Y	Patron
AB-68	Other	DK		Y	A L	2020-07-05		Y	Patron
AB-69	Red	Υ		Y		2020-07-04	Raw	Υ	Patron
AB-74	Red	М		Y		2020-07-05	Raw	Υ	Patron
BC-13	Red	Υ		Y		2020-06-28	Raw	Υ	Patron
BC-26	White	Р		Y-		2020-06-28	Raw	Υ	Patron
BC-47	Other	DK		Y					
BC-03	Other			Υ					
BC-15	Other	Υ		Y		2020-06-27	Cooked	Υ	Patron
AB-145	Red	Υ				10	Raw		
BC-78	Red	Υ		Y		2020-07-16	Raw		
AB-80	Other	N		Y					
MB-14	Red	Р		Y		2020-07-11	Raw		
AB-133	Red	Υ	the second secon	Y		2020-08-17	Raw	Y	Patron
AB-148	Other	DK		Y		2020-07-03		γ	Patron
AB-70	Other	DK		Y		2020-07-03	3 0	Y	Patron
AB-71	Red	Υ		Y		2020-07-06	Raw	Y	Patron
BC-10	White	DK		Y		2020-07-06			
SK-01	Other	Р	9	Y		2020-07-06	Cooked		2 = J

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Appendix B: "Most likely" onion exposure for each confirmed case with sufficient information; including details of exposure location, variety of onions, purchase records, and links to Thomson International

BC-70	White	Y	/h\//					161/1	1	Raw	Y	Patron
BC-56	Red	p	(b)(4	-)			Υ	(b)(4)		Cooked	γ	Patron
BC-81	Red	γ					Υ	()			Y	Patron
BC-38	Red	Υ					-1/					
AB-193	Red	Υ		(b) (4)	No.		Y		2020-07-12	Raw		
AB-107	Red	М							2020-06-29		Υ	Patron
AB-116	Red	Y					Υ		2020-06-30	Raw	Y	Patron
AB-03	Other	DK		(b) (4)			Υ					
BC-72	Red	Υ		(b) (4)	601		Υ	3	2020-07-10	Raw		
BC-71	Red	Υ		(b) (4)	20		Υ	0				
AB-07	Other	P		(b) (4)			Y	54	2020-07-02			
AB-222	White	Υ			-Cha	1	100	0	2020-07-08	Raw	(A	1
AB-233	Red	Υ							2020-07-12	Raw		
BC-102	Other	DK		(b) (4)			Υ					
BC-57	Other	DK		(b) (4)			Y		2020-07-12			
BC-92	White	Р	the same of	(b) (4)			Y		2020-07-22	Cooked		
Confirme	d cases w	ith most	likely onion exposure at a gro	cerv store								
AB-227	Red	Υ	-/ -//	1				-				
AB-229	Red	Υ	-( n ) ( 4		4	- 10 1		-		Raw		
AB-176	Red	Υ						-		Raw		
AB-225	White	Υ	. , ,	100	Υ	Υ	N		May 13			
QC-09	White	DK	Costco	Onions52			Υ	870 MONTÉE DES PIONNIERS, TERREBONNE, QC		Cooked		
QC-455	Other	DK	Costco	Onions52	2		Υ		21	12		
BC-90	Other	Ÿ	(b)(4)	(b) (4)			Υ	(b)(4)				

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BC-89	White	DK	(b)	11	1		Y	(h)	(4)		Cooked	
QC-02	Other	Υ	(U)	14							Cooked	
BC-104	Red	γ	( - )	1 7			Y				Raw	
QC-06	White										Cooked	
AB-106	Red	Υ									Cooked	
BC-02	Other	DK					Υ					
QC-12	White	Y				70-					Raw	
AB-224	White	Υ									Raw	
AB-79	Red	Υ						- 3		-		
AB-81	Red	Y									Raw	
AB-85	Red	Υ								18		
BC-68	Red	Υ								2020-07-12	Raw	
AB-186	Red	Υ			N		Υ			2020-07-03 to 2020-07-06	Raw	
AB-203	Red	Υ									Raw	
AB-234	Red	P						10				
BC-16	Red	DK			Y	Y				June 4		
BC-19	White	DK			Y	Υ				2020-06-20		
BC-31	Red	Y			Y	Υ				June 26, July 9		
BC-32	Red	Υ								2020-05-14		

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BC-45	Other	DK	/1- \	11	Y	Y	1	(h)	11	2020-05-12	1	1
BC-63 BC-74	Red Red	Y	(b)	14	Y	N Y		(b)	(4	July 17	Raw	
BC-77	Red	Y	(~)	1.	/			` '				
BC-88	Red	Υ			N		Y				Raw	
QC-13	Red	Р								0 -	Cooked	
BC-100	Red	Р	1.								Raw	
MB-11	White	Υ									Raw	
MB-15	White	Y			Y	Y				2020-07-14	Cooked	
BC-103	Red	Υ					Р				Raw	(M)
BC-75	White	Υ			Y	N					Cooked	
AB-263	Red	Υ									Raw	
BC-05	Red	М	0		Y	Υ	Y			July 2	Raw	

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# 2007NewWGS-1MP Analysis 10

٩٩	Key	WGS Bub	eest Bulam teldWunSber	SourceState	Organism	SIS R	Bepceivalid Deptetteerm	IsolatDate	Source ype	SourceSite	PatientSex	PatientAge	Outbreak	SypadDefallsent	
	RN200001251			AB		Newport		2020-07-06			Male	2	2007NewWGS-1MP		
	RN2000012			AB		Newport		2020-07-0			Male	31	2007NewWGS-1MP	•	-
l	BC20A 62A		E3310210 30	BC	Newport	Newport		2020-07-1	Human	Faeces	MALE		2007NewWGS-1MP	•	-
$\vdash$	20-02827		RN-20-0001375	AB	Newport	Newport	2020-07-2	2020-07-13	Human	Not given	Male	75	2007NewWGS-1MP	no DOB or sample source provided	-
d '	20-02877		RN-20-0001 8	AB	Newport	Newport	2020-07-2	2020-07-15	Human	Not given	Female	38	2007NewWGS-1MP	no DOB or sample source provided	-
اار	20-02887	•	RN-20-0001 6	AB	Newport	Newport	2020-07-2	2020-07-16	Human	Not given	Female	31	2007NewWGS-1MP	no DOB or sample source provided	÷
·4—	20-02813	•	RN-20-000135	AB	Newport	Newport	2020-07-2	2020-07-10	Human	Not given	Male	7	2007NewWGS-1MP	no DOB or sample source provided	÷
<del></del>	BC20A 33A	•	E331015 808	BC	Newport	Newport		2020-07-08	Human	Faeces	FEMALE		2007NewWGS-1MP		•
	BC20A 0 A	÷	E33100 9158	BC	Newport	Newport		2020-07-05	Human	Stool	Female	11	2007NewWGS-1MP		-
1 1	20MS0975	÷	20T002958	ON	Newport	Newport	2020-07-12		Human	Stool	Female	75	2007NewWGS-1MP		-
l i	BC20A 0A	÷	E33101755 8	BC	Newport	Newport		2020-07-11	Human	Faeces	FEMALE		2007NewWGS-1MP		-
l i	BC20A 31A	÷	E331015 773	BC	Newport	Newport		2020-07-10	Human	Faeces	MALE		2007NewWGS-1MP		-
	BC20A 29A		E331015 726	BC	Newport	Newport		2020-07-08	Human	Faeces	FEMALE		2007NewWGS-1MP	•	
	BC20A 30A		E331015 751	BC	Newport	Newport		2020-07-08	Human	Faeces	FEMALE		2007NewWGS-1MP	•	-
	BC20A 28A		E33101 7125	BC	Newport	Newport		2020-07-08	Human	Faeces	MALE		2007NewWGS-1MP	:	-
	BC20A 20A		E331009722	BC	Newport	Newport		2020-07-02	Human	Faeces	MALE		2007NewWGS-1MP		
	BC20A 37A		E3310169 85	BC	Newport	Newport		2020-07-10	Human	Faeces	MALE		2007NewWGS-1MP	:	-
	BC20A 3 A		E331015 828	BC	Newport	Newport		2020-07-09	Human	Faeces	MALE		2007NewWGS-1MP	:	
	BC20A 23A		E3310113206	BC	Newport	Newport		2020-07-06	Human	Faeces	MALE		2007NewWGS-1MP		-
	20-0253		20-191-01160	PE	Salmone la	Newport	2020-07-15	2020-07-09	Human	Stool	Male	32	2007NewWGS-1MP		÷
	MB-20183893		20183893	MB	Newport	Newport	2020-07-10	2020-07-09	HUMAN	STOOL	MALE	23	2007NewWGS-1MP		-
1 1	MB-20176 93		20176 93	MB	Newport	Newport	2020-07-13	2020-07-13	HUMAN	STOOL	MALE	68	2007NewWGS-1MP		-
1 1	RN200001198			AB		Newport							2007NewWGS-1MP		
1 1	RN200001265			AB		Newport		2020-07-06			Female	36	2007NewWGS-1MP		
1 1	RN200001291			AB		Newport		2020-07-09			Female	5	2007NewWGS-1MP		
	RN200001255			AB		Newport		2020-07-06			Male	3	2007NewWGS-1MP		_
	RN200001271		RN-20-0001271	AB	Newport	Newport		2020-07-06			Female	31	2007NewWGS-1MP		_
	RN20000129			AB		Newport		2020-07-08			Male	33	2007NewWGS-1MP		_
	RN200001293			AB		Newport		2020-07-09			Male	1	2007NewWGS-1MP		
	RN20000126			AB		Newport		2020-07-05			Male	1	2007NewWGS-1MP		_
	RN200001298		RN-20-0001298	AB	Newport	Newport		2020-07-08			Female	6	2007NewWGS-1MP		
	RN200001263			AB		Newport		2020-07-06			Female	20	2007NewWGS-1MP		_
	RN200001295			AB		Newport		2020-07-09			Female	2	2007NewWGS-1MP		_
	RN200001275			AB		Newport		2020-07-11			Male	23	2007NewWGS-1MP		
	RN20000130		RN-20-000130	AB	Newport	Newport		2020-07-10			Female	3	2007NewWGS-1MP		
	BC20A 66A		E3310235737	BC	Newport	Newport		2020-07-17	Human	Faeces	MALE	-	2007NewWGS-1MP	•	•
	BC20A 73A	•	E33102 6217	BC	Newport	Newport		2020-07-13	Human	Faeces	MALE		2007NewWGS-1MP	:	
	BC20A 69A	•	E33102311 8	BC	Newport	Newport		2020-07-1	Human	Blood	FEMALE		2007NewWGS-1MP	•	•
	BC20A 71A	•	E33102 5880	BC	Newport	Newport		2020-07-17	Human	Faeces	MALE		2007NewWGS-1MP	•	-
	BC20A 63A	•	E3310199063	BC	Newport	Newport		2020-07-17	Human	Blood	MALE		2007NewWGS-1MP	•	-
	BC20A 70A	•	E33102 3 97	BC	Newport	Newport		2020-07-15	Human	Faeces	FEMALE		2007NewWGS-1MP	•	-
	BC20A 55A	•	E33101 2330	BC	Newport	Newport		2020-07-13	Human	Faeces	MALE		2007NewWGS-1MP	•	-
	BC20A 56A	•	E331018 093	BC	Newport	Newport		2020-07-12	Human	Faeces	FEMALE		2007NewWGS-1MP	•	-
		•												•	•
	BC20A 72A RN200001311		E33102 3 36	BC AB	Newport	Newport		2020-07-17 2020-07-07	Human	Faeces	FEMALE Female	93	2007NewWGS-1MP	+	-
	BC20A 77A		E33102 9668	AB BC	Newport	Newport Newport		2020-07-07	Human	Faeces	FEMALE	93	2007NewWGS-1MP 2007NewWGS-1MP	+	+
	BC20A 77A RN200001256		E33102 9668		Newport			2020-07-19	Human	Faeces	Male	28	2007NewWGS-1MP 2007NewWGS-1MP	+	-
				AB		Newport								•	÷1
	RN200001266	•	RN-20-0001266	AB	Newport	Newport		2020-07-06			Female	2	2007NewWGS-1MP	•	=
1 1	RN200001226	•		AB		Newport							2007NewWGS-1MP	:	•
1 1	RN200001192	•		AB		Newport							2007NewWGS-1MP 2007NewWGS-1MP	:	•
1 1	RN200001260	•		AB		Newport								:	•
1 1	RN20000121	•		AB		Newport				_	55444.5		2007NewWGS-1MP	:	•
1 1	BC20A 2A		R3310066507	BC	Newport	Newport		2020-07-11	Human	Feces	FEMALE		2007NewWGS-1MP	•	-
1 1	RN20000123			AB		Newport							2007NewWGS-1MP	•	
1 1	RN20000119	÷		AB		Newport							2007NewWGS-1MP	•	
1 1	RN200001233	•		AB		Newport							2007NewWGS-1MP		•
1 1	RN200001193	•		AB		Newport							2007NewWGS-1MP		•
1 1	RN200001328	•		AB		Newport							2007NewWGS-1MP		•
1 1	RN200001213	•		AB		Newport							2007NewWGS-1MP		•
1 1	RN200001221	•		AB		Newport							2007NewWGS-1MP		•
1 1	RN2000012 3			AB		Newport							2007NewWGS-1MP	:	
1 1	RN200001235			AB		Newport							2007NewWGS-1MP	:	
1 1	RN200001220	-		AB		Newport							2007NewWGS-1MP		
	RN200001232			AB		Newport							2007NewWGS-1MP		
1 1	RN200001333			AB		Newport							2007NewWGS-1MP		
1 1	BC20A 38A	-	E3310169778	BC	Newport	Newport		2020-07-10	Human	Faeces	MALE		2007NewWGS-1MP	:	
1 1	BC20A 76A	-	R3310105369	BC	Newport	Newport		2020-07-17	Human	Feces	MALE		2007NewWGS-1MP		
1 1	RN200001261	-		AB	•	Newport							2007NewWGS-1MP		
	RN200001228			AB		Newport							2007NewWGS-1MP		
1 1	RN200001215	-		AB		Newport							2007NewWGS-1MP	:	
	RN200001209	•		AB		Newport							2007NewWGS-1MP	:	•
1 1	RN200001262	-		AB		Newport							2007NewWGS-1MP	:	-
	nly RN200001325			AB		Newport				2020-Nov			2007NewWGS-1MP	•	-

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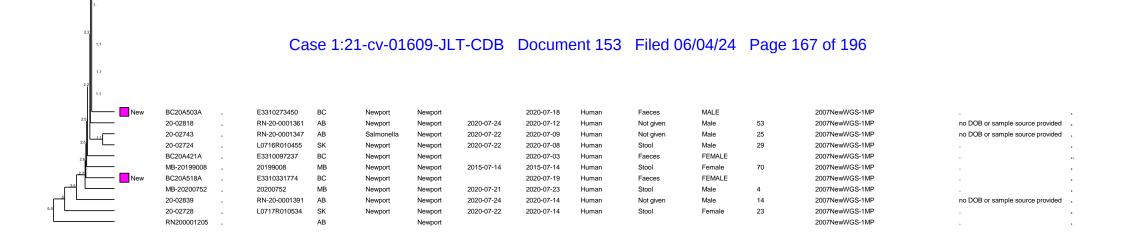
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	Daving and a second			DM 00 0004074	45											
8 82 22 22252526273545	sRN200001274	D11000001070	•	RN-20-0001274	AB AB	Newport	Newport		2020-07-07			Female	19	2007NewWGS-1MP	•	•
		RN200001273	•	RN-20-0001273		Newport	Newport		2020-07-10			Female	45	2007NewWGS-1MP	•	•
		RN200001310 BC20A427A	•	RN-20-0001310 E3310134308	AB BC	Newport	Newport		2020-07-10 2020-07-12	Human	-	Male MALE	24	2007NewWGS-1MP 2007NewWGS-1MP	•	•
		BG20A427A MB-20199999	•	20199999	MB.	Newport	Newport	2020-07-20	2020-07-12	Human	Faeces Stool	MALE Female	70	2007NewWGS-1MP 2007NewWGS-1MP		
			•			Newport							72			
		MB-20200669 RN200001272	•	20200669	MB AB	Newport	Newport	2020-07-20	2020-07-22 2020-07-06	Human	Stool	Male Female	52 40	2007NewWGS-1MP 2007NewWGS-1MP	•	•
			•	RN-20-0001272		Newport	Newport	0000 07 40	2020-07-06							
		20MS1029	•	20T0029607	ON	Newport	Newport	2020-07-16		Human	Urine	Female	43	2007NewWGS-1MP	·	÷
		BC20A468A	•	E3310231226	BC BC	Newport	Newport		2020-07-15	Human	Faeces	FEMALE		2007NewWGS-1MP	resident of AB	•
		BC20A464A RN200001172		E3310198029	AB	Newport	Newport		2020-07-15	Human	Faeces	MALE		2007NewWGS-1MP 2007NewWGS-1MP	resident of AB	•
		20-02769		RN-20-0001312	AB AB	Newport	Newport Newport	2020-07-22	2020-07-10	Human	Not given	Female	34	2007NewWGS-1MP 2007NewWGS-1MP	no DOB or sample source provided	
		20-02769	•	RN-20-0001312 RN-20-0001335	AB AB	Newport			2020-07-10					2007NewWGS-1MP		•
		20-02782 BC20A432A	•	E3310154795	AB BC	Newport	Newport Newport	2020-07-22	2020-07-10	Human Human	Not given Faeces	Female MALE	26	2007NewWGS-1MP 2007NewWGS-1MP	no DOB or sample source provided	
		BC20A432A BC20A460A		E3310194795	BC	Newport	Newport		2020-07-10	Human	Faeces	MALE		2007NewWGS-1MP	•	•
		20-02660		L00271905001	QC		Newport	2020-07-21	2020-07-11	Human	Stool	Male	78	2007NewWGS-1MP	•	•
		20-02745	•	RN-20-0001339	AB	Newport Salmonella	Newport	2020-07-21	2020-07-05	Human	Not given	Female	53	2007NewWGS-1MP	no DOB or sample source provided	•
		20-02745		RN-20-0001339 RN-20-0001332	AB AB	Newport	Newport	2020-07-22	2020-07-10	Human	Not given	Female	17	2007NewWGS-1MP	no DOB or sample source provided	•
		20-02783		RN-20-0001332 RN-20-0001338	AB AB	Newport	Newport	2020-07-22	2020-07-10	Human	Not given	Male	57	2007NewWGS-1MP	no DOB or sample source provided	•
		20-02767	•	RN-20-0001335	AB	Newport	Newport	2020-07-22	2020-07-10	Human	Not given	Female	43	2007NewWGS-1MP	no DOB or sample source provided	•
		MB-20198087	•	20198087	MB	Newport	Newport	2020-07-22	2020-07-10	Human	Stool	Male	33	2007NewWGS-1MP	no bob or sample source provided	
		20-02777	•	RN-20-0001316	AB	Newport	Newport	2020-07-11	2020-07-08	Human	Not given	Female	19	2007NewWGS-1MP	no DOB or sample source provided	•
		20-02/17	•	RN-20-0001310	AB	Newport	Newport	2020-07-24	2020-07-00	Human	Not given	Male	28	2007NewWGS-1MP	no DOB or sample source provided	•
		MB-20200658	•	20200658	MB	Newport	Newport	2015-07-19	2015-07-16	Human	Stool	Male	27	2007NewWGS-1MP	no bob or sample source provided	-
		20-02747	•	RN-20-0001346	AB	Salmonella	Newport	2020-07-22	2020-07-10	Human	Not given	Male	19	2007NewWGS-1MP	no DOB or sample source provided	•
		20-02775	•	RN-20-0001318	AB	Newport	Newport	2020-07-22	2020-07-08	Human	Not given	Male	29	2007NewWGS-1MP	no DOB or sample source provided	•
		20-02811	•	RN-20-0001352	AB	Newport	Newport	2020-07-24	2020-07-11	Human	Not given	Male	24	2007NewWGS-1MP	no DOB or sample source provided	•
		BC20A422A	•	E3310113190	BC	Newport	Newport		2020-07-04	Human	Faeces	FEMALE		2007NewWGS-1MP		•
		20-02834		RN-20-0001386	AB	Newport	Newport	2020-07-24	2020-07-12	Human	Not given	Male	21	2007NewWGS-1MP	no DOB or sample source provided	
		20-02826		RN-20-0001374	AB	Newport	Newport	2020-07-24	2020-07-12	Human	Not given	Male	13	2007NewWGS-1MP	no DOB or sample source provided	
		20-02835		RN-20-0001387	AB	Newport	Newport	2020-07-24	2020-07-12	Human	Not given	Female	39	2007NewWGS-1MP	no DOB or sample source provided	-
		20-02825		RN-20-0001371	AB	Newport	Newport	2020-07-24	2020-07-15	Human	Not given	Male	27	2007NewWGS-1MP	no DOB or sample source provided	
		20-02833		RN-20-0001385	AB	Newport	Newport	2020-07-24	2020-07-14	Human	Not given	Female	40	2007NewWGS-1MP	no DOB or sample source provided	
		20-02868		RN-20-0001431	AB	Newport	Newport	2020-07-24	2020-07-16	Human	Not given	Female	83	2007NewWGS-1MP	no DOB or sample source provided	
		20-02874		RN-20-0001440	AB	Newport	Newport	2020-07-24	2020-07-15	Human	Not given	Male	27	2007NewWGS-1MP	no DOB or sample source provided	
		20-02871		RN-20-0001434	AB	Newport	Newport	2020-07-24	2020-07-16	Human	Not given	Female	45	2007NewWGS-1MP	no DOB or sample source provided	
		20-02898		RN-20-0001478	AB	Salmonella	Newport	2020-07-24	2020-07-18	Human	Not given	Male	26	2007NewWGS-1MP	no DOB or sample source provided	
		20-02875		RN-20-0001441	AB	Newport	Newport	2020-07-24	2020-07-16	Human	Not given	Male	27	2007NewWGS-1MP	no DOB or sample source provided	
	40 50 80 80 80 80 90 5 0	20-02883	4 6	RN-20-0001460	AB	Newport	Newport	2020-07-24	2020-07-15	Human	Not given	Male	73	2007NewWGS-1MP	no DOB or sample source provided	
ſ		20-02869		RN-20-0001432	AB	Newport	Newport	2020-07-24	2020-07-15	Human	Not given	Female	58	2007NewWGS-1MP	no DOB or sample source provided	
		20-02870		RN-20-0001433	AB	Newport	Newport	2020-07-24	2020-07-15	Human	Not given	Male	30	2007NewWGS-1MP	no DOB or sample source provided	
		20-02872		RN-20-0001435	AB	Newport	Newport	2020-07-24	2020-07-15	Human	Not given	Male	19	2007NewWGS-1MP	no DOB or sample source provided	
		BC20A426A	•	E3310125324	BC MB	Newport	Newport		2020-07-04	Human	Faeces	MALE		2007NewWGS-1MP	<u> </u>	•
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		20-02823	•	RN-20-0001369 RN-20-0001350	AB AB	Newport	Newport	2020-07-24	2020-07-11	Human	Not given Not given	remaie Male	72 28	2007NewWGS-1MP 2007NewWGS-1MP	no DOB or sample source provided no DOB or sample source provided	
		20-02809	•	RN-20-0001350	AB AB	Newport Newport	Newport	2020-07-24	2020-07-10	Human	Not given	Male	61	2007NewWGS-1MP	no DOB or sample source provided	•
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		20-02824	•	RN-20-0001370	AB	Newport	Newport	2020-07-24	2020-07-14	Human	Not given	Female	23	2007NewWGS-1MP	no DOB or sample source provided	•
		20-02888	•	RN-20-0001467	AB	Salmonella	Newport	2020-07-24	2020-07-14	Human	Not given	Male	55	2007NewWGS-1MP	no DOB or sample source provided	•
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		20-02880		RN-20-0001457	AB	Newport	Newport	2020-07-24	2020-07-16	Human	Not given	Female	32	2007NewWGS-1MP	no DOB or sample source provided	
	1	20-02896		RN-20-0001476	AB	Newport	Newport	2020-07-24	2020-07-16	Human	Not given	Male	18	2007NewWGS-1MP	no DOB or sample source provided	-
		20-02884		RN-20-0001461	AB	Newport	Newport	2020-07-24	2020-07-16	Human	Not given	Female	30	2007NewWGS-1MP	no DOB or sample source provided	-
		20-02894		RN-20-0001474	AB	Newport	Newport	2020-07-24	2020-07-16	Human	Not given	Female	52	2007NewWGS-1MP	no DOB or sample source provided	
		20-02885		RN-20-0001462	AB	Newport	Newport	2020-07-24	2020-07-17	Human	Not given	Female	43	2007NewWGS-1MP	no DOB or sample source provided	
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		20-02889		RN-20-0001468	AB	Newport	Newport	2020-07-24	2020-07-14	Human	Not given	Female	98	2007NewWGS-1MP	no DOB or sample source provided	
		20-02814		RN-20-0001355	AB	Newport	Newport	2020-07-24	2020-07-11	Human	Not given	Male	36	2007NewWGS-1MP	no DOB or sample source provided	
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		20-02836		RN-20-0001388	AB	Newport	Newport	2020-07-24	2020-07-12	Human	Not given	Male	32	2007NewWGS-1MP	no DOB or sample source provided	
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	1	20-02843		RN-20-0001402	AB	Newport	Newport	2020-07-24	2020-07-14	Human	Not given	Male	34	2007NewWGS-1MP	no DOB or sample source provided	-
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	1	20-02865	•	RN-20-0001428	AB	Newport	Newport	2020-07-24	2020-07-16	Human	Not given	Female	23	2007NewWGS-1MP	no DOB or sample source provided	÷
ll l	1	20-02842		RN-20-0001397	AB	Newport	Newport	2020-07-24	2020-07-17	Human	Not given	Female	86	2007NewWGS-1MP	no DOB or sample source provided	-
	1	20-02850		RN-20-0001412	AB	Newport	Newport	2020-07-24	2020-07-18	Human	Not given	Female	95	2007NewWGS-1MP	no DOB or sample source provided	-
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	1	20-02828	•	RN-20-0001376 RN-20-0001430	AB AB	Newport Newport	Newport Newport	2020-07-24 2020-07-24	2020-07-13	Human Human	Not given	Female Male	22 46	2007NewWGS-1MP 2007NewWGS-1MP	no DOB or sample source provided	-
	1	20-02867	•	RN-20-0001430 RN-20-0001408	AB AB	Newport	Newport	2020-07-24	2020-07-16	Human	Not given Not given	Male Female	46 58	2007NewWGS-1MP 2007NewWGS-1MP	no DOB or sample source provided no DOB or sample source provided	•
	1	20-02847	•	RN-20-0001408 RN-20-0001424	AB AB	Newport Newport	Newport	2020-07-24	2020-07-15	Human	Not given Not given	Female Female	33	2007NewWGS-1MP 2007NewWGS-1MP	no DOB or sample source provided	-
	1	20-02856		RN-20-0001424 RN-20-0001418	AB AB	Salmonella	Newport	2020-07-24	2020-07-13	Human	Not given	Male	22	2007NewWGS-1MP	no DOB or sample source provided	•
l l	1	20 02000	•	111 20 000 1410		Guilloileila	receptit	2020 07-24	2020-07-14	roulidii	1401 Alacii	THE C		TOOLLIGHT OO IME	no sos or sample source provided	

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- 1	20-02860		RN-2	I-20-0001422	AB	Newport	Newport	2020-07-24	2020-07-14	Human	Not given	Female	55	2007NewWGS-1MP	no DOB or sample source provided
	20-02807			722R010835	SK	Newport	Newport	2020-07-24	2020-07-15	Human	Stool	Female	23	2007NewWGS-1MP	
I —								2020-07-24					23		•
	BC20A523A		E331	310331938	BC	Newport	Newport		2020-07-22	Human	Faeces	FEMALE		2007NewWGS-1MP	
New	BC20A514A		F331	310319859	BC	Newport	Newport		2020-07-22	Human	Faeces	FEMALE		2007NewWGS-1MP	
															•
New	BC20A520A		E331	310331820	BC	Newport	Newport		2020-07-20	Human	Faeces	MALE		2007NewWGS-1MP	
New	BC20A507A		E331	310255764	BC	Newport	Newport		2020-07-21	Human	Faeces	FEMALE		2007NewWGS-1MP	
New	BC20A526A		F224	310331858	BC	Newport	Newport		2020-07-23	Human	Faeces	MALE		2007NewWGS-1MP	
						Newport									•
New	BC20A517A		E331	310331678	BC	Newport	Newport		2020-07-19	Human	Faeces	FEMALE		2007NewWGS-1MP	
New	BC20A519A		E224	310331807	BC	Newport	Newport		2020-07-20	Human	Faeces	FEMALE		2007NewWGS-1MP	
															•
New	BC20A504A			310274918	BC	Newport	Newport		2020-07-17	Human	Faeces	FEMALE		2007NewWGS-1MP	
New	BC20A511A		F331	310319881	BC	Newport	Newport		2020-07-23	Human	Faeces	FEMALE		2007NewWGS-1MP	
					BC										
New	BC20A506A			310302189		Newport	Newport		2020-07-22	Human	Faeces	FEMALE		2007NewWGS-1MP	
New	BC20A513A		E331	310319782	BC	Newport	Newport		2020-07-24	Human	Faeces	MALE		2007NewWGS-1MP	
New	BC20A516A		E224	310331658	BC	Newport	Newport		2020-07-21	Human	Faeces	FEMALE		2007NewWGS-1MP	
															•
New	BC20A510A		E331	310300516	BC	Newport	Newport		2020-07-22	Human	Faeces	MALE		2007NewWGS-1MP	
New	BC20A509A		F331	310300498	BC	Newport	Newport		2020-07-21	Human	Faeces	MALE		2007NewWGS-1MP	
° New	BC20A524A		E331	310331838	BC	Newport	Newport		2020-07-20	Human	Faeces	MALE		2007NewWGS-1MP	
New	BC20A508A		E331	310300478	BC	Newport	Newport		2020-07-21	Human	Faeces	FEMALE		2007NewWGS-1MP	
··	MB-20199006	ve	2040	199006	MB	Newport	Newport	2020-07-14	2020-07-14	HUMAN	STOOL	FEMALE	29	2007NewWGS-1MP	
11		ж.													•
.4 <b>∐</b>	20-02861	-	RN-2	I-20-0001423	AB	Newport	Newport	2020-07-24	2020-07-12	Human	Not given	Female	28	2007NewWGS-1MP	no DOB or sample source provided
11	MB-20200570	70	วกวก	200570	MB	Newport	Newport	2015-07-17	2015-07-13	Human	Stool	Male	31	2007NewWGS-1MP	
L L															•
	MB-20200697			200697	MB	Newport	Newport	2020-07-21	2020-07-23	Human	Stool	Female	44	2007NewWGS-1MP	
Ha	BC20A478A		E331	310246080	BC	Newport	Newport		2020-07-16	Human	Faeces	FEMALE		2007NewWGS-1MP	:
14 👝					BC										•
. New	BC20A525A			310331869		Newport	Newport		2020-07-22	Human	Faeces	FEMALE		2007NewWGS-1MP	
⊢	20-02857		RN-2	I-20-0001419	AB	Newport	Newport	2020-07-24	2020-07-14	Human	Not given	Female	62	2007NewWGS-1MP	no DOB or sample source provided
L	20-02893			I-20-0001473	AB	Newport	Newport	2020-07-24	2020-07-16	Human	Not given	Mala	59	2007NewWGS-1MP	no DOB or sample source provided
I		•										maio			
_	20-02899			I-20-0001480	AB	Newport	Newport	2020-07-24	2020-07-19	Human	Not given	Female	84	2007NewWGS-1MP	no DOB or sample source provided
	BC20A425A		F331	310125206	BC	Newport	Newport		2020-07-07	Human	Faeces	FEMALE		2007NewWGS-1MP	
															•
l I	BC20A424A			310124511	BC	Newport	Newport		2020-07-07	Human	Faeces	MALE		2007NewWGS-1MP	•
1 – 1	BC20A474A		E331	310246284	BC	Newport	Newport		2020-07-13	Human	Faeces	FEMALE		2007NewWGS-1MP	
	BC20A522A		F224	310331901	BC	Newport	Newport		2020-07-23	Human	Faeces	MALE		2007NewWGS-1MP	
I New						Newport				numan					•
_	BC20A439A		E331	310172129	BC	Newport	Newport		2020-07-09	Human	Faeces	FEMALE		2007NewWGS-1MP	
	20-02808		PN-1	I-20-0001348	AB	Newport	Newport	2020-07-24	2020-07-10	Human	Not given	Female	77	2007NewWGS-1MP	no DOB or sample source provided
		•													
5	20-02846			I-20-0001406	AB	Newport	Newport	2020-07-24	2020-07-13	Human	Not given	Male	27	2007NewWGS-1MP	no DOB or sample source provided
L	20-02854		RN-2	1-20-0001416	AB	Newport	Newport	2020-07-24	2020-07-14	Human	Not given	Male	23	2007NewWGS-1MP	no DOB or sample source provided
1	BC20A459A			310198052	BC	Newport	Newport		2020-07-13	Human	Faeces	MALE		2007NewWGS-1MP	•
	20-02848	-	RN-2	1-20-0001409	AB	Newport	Newport	2020-07-24	2020-07-14	Human	Not given	Male	87	2007NewWGS-1MP	no DOB or sample source provided
	20-02873			I-20-0001437	AB	Newport	Newport	2020-07-24	2020-07-16	Human	Not given	Male	87	2007NewWGS-1MP	no DOB or sample source provided
						Newport	Newport			Human	Not given				
	20-02891	-	RN-2	I-20-0001471	AB	Newport	Newport	2020-07-24	2020-07-16	Human	Not given	Female	44	2007NewWGS-1MP	no DOB or sample source provided
1	20-02841		DN 1	1-20-0001394	AB	Newport	Newport	2020-07-24	2020-07-14	Human	Not given	Female	42	2007NewWGS-1MP	no DOB or sample source provided
		•													
	20-02787	-	RN-2	I-20-0001321	AB	Newport	Newport	2020-07-22	2020-07-09	Human	Not given	Male	24	2007NewWGS-1MP	no DOB or sample source provided
	20-02881		RN-2	1-20-0001458	AB	Newport	Newport	2020-07-24	2020-07-16	Human	Not given	Male	89	2007NewWGS-1MP	no DOB or sample source provided
		•													
	20-02838	•		I-20-0001390	AB	Newport	Newport	2020-07-24	2020-07-13	Human	Not given	Female	23	2007NewWGS-1MP	no DOB or sample source provided
1	20-02831		RN-2	1-20-0001379	AB	Newport	Newport	2020-07-24	2020-07-12	Human	Not given	Female	30	2007NewWGS-1MP	no DOB or sample source provided
	20-02815			I-20-0001356	AB				2020-07-11			Male			
· ·						Newport	Newport	2020-07-24		Human	Not given		23	2007NewWGS-1MP	no DOB or sample source provided
	20-02882	-	RN-2	I-20-0001459	AB	Newport	Newport	2020-07-24	2020-07-16	Human	Not given	Male	73	2007NewWGS-1MP	no DOB or sample source provided
	20-02852		DN 1	I-20-0001414	AB	Newport	Newport	2020-07-24	2020-07-15	Human	Not given	Male	18	2007NewWGS-1MP	no DOB or sample source provided
		•	IXIV-2	1-20-0001414		Newport		2020-07-24	2020-07-13	Human	Not given	male	10		no bob or sample source provided
	RN200001231	31 .			AB		Newport							2007NewWGS-1MP	
	RN200001329	29			AB		Newport							2007NewWGS-1MP	
	RN200001222				AB		Newport							2007NewWGS-1MP	
	RN200001197	97 .			AB		Newport							2007NewWGS-1MP	
_	RN200001292				AB		Newport							2007NewWGS-1MP	
															•
	20-02790		RN-2	I-20-0001322	AB	Newport	Newport	2020-07-22	2020-07-08	Human	Not given	Female	49	2007NewWGS-1MP	no DOB or sample source provided
	20-02725		1.071	717R010523	SK	Newport	Newport	2020-07-22	2020-07-09	Human	Stool	Male	68	2007NewWGS-1MP	
		•													
	20-02879	•		I-20-0001456	AB	Newport	Newport	2020-07-24	2020-07-15	Human	Not given	Male	96	2007NewWGS-1MP	no DOB or sample source provided
	20-02849		RN-2	I-20-0001411	AB	Newport	Newport	2020-07-24	2020-07-13	Human	Not given	Female	39	2007NewWGS-1MP	no DOB or sample source provided
					AB										
	20-02878			1-20-0001449		Newport	Newport	2020-07-24	2020-07-15	Human	Not given	Female	10	2007NewWGS-1MP	no DOB or sample source provided
	BC20A467A		E331	310235751	BC	Newport	Newport		2020-07-17	Human	Faeces	MALE		2007NewWGS-1MP	
	20-02785		psi 4	I-20-0001320	AB	Newport	Newport	2020-07-22	2020-07-09	Human	Not given	Female	26	2007NewWGS-1MP	no DOB or sample source provided
								2020-01-22		Hullian	NOT GIVE!!				no pop or sample source provided
_	RN200001301	01 .	RN-2	I-20-0001301	AB	Newport	Newport		2020-07-10			Male	46	2007NewWGS-1MP	
New	BC20A505A		F331	310273420	BC	Newport	Newport		2020-07-16	Human	Faeces	FEMALE		2007NewWGS-1MP	
	BC20A465A			310197999	BC				2020-07-13			FEMALE		2007NewWGS-1MP	•
						Newport	Newport			Human	Faeces				
	BC20A435A		F331	310154846	BC	Newport	Newport		2020-07-09	Human	Faeces	FEMALE		2007NewWGS-1MP	:
															•
_	BC20A475A			310243574	BC	Newport	Newport		2020-07-17	Human	Faeces	MALE		2007NewWGS-1MP	
	MB-20200490	90 .	2020	200490	MB	Newport	Newport	2015-07-16	2015-07-15	Human	Stool	Female	38	2007NewWGS-1MP	4
	BC20A515A		F00.	310262734						Human				2007NewWGS-1MP	
					BC	Newport	Newport		2020-07-21		Faeces	MALE			
New	BC20A441A		E331	310175569	BC	Newport	Newport		2020-07-13	Human	Blood	FEMALE		2007NewWGS-1MP	
New	BC20A458A				BC				2020-07-14					2007NewWGS-1MP	
New	BUZUA458A		E331	310199487		Newport	Newport		2020-07-14	Human	Faeces	FEMALE			
New		34 .			AB		Newport							2007NewWGS-1MP	
New New	RN200001334	nn			AB		Newport							2007NewWGS-1MP	
New New															•
New New	RN200001199		DN 1	I-20-0001447	AB	Newport	Newport	2020-07-24	2020-07-15	Human	Not given	Female	41	2007NewWGS-1MP	no DOB or sample source provided
New			INIV-2		BC	Newport	Newport		2020-07-24	Human	Faeces	FEMALE		2007NewWGS-1MP	
New	RN200001199 20-02876				DC.	Newport	ivewport		2020-07-24	riunidii	i aedes	LIVIALE		200/ Newty GG- IMP	
New New	RN200001199 20-02876 BC20A512A		E331	310319901											
New New	RN200001199 20-02876		E331	310319901 I-20-0001405	AB	Newport	Newport	2020-07-24	2020-07-13	Human	Not given	Female	31	2007NewWGS-1MP	no DOB or sample source provided
New New	RN200001199 20-02876 BC20A512A		E331 RN-2		AB AB	Newport Salmonella	Newport	2020-07-24	2020-07-13	Human Human		Female Female		2007NewWGS-1MP 2007NewWGS-1MP	no DOB or sample source provided
New New	RN200001199 20-02876 BC20A512A 20-02845 20-02742		E331 RN-2 RN-2	I-20-0001405 I-20-0001341	AB	Salmonella	Newport	2020-07-22	2020-07-09	Human	Not given	Female	19	2007NewWGS-1MP	
New New	RN200001199 20-02876 BC20A512A 20-02845 20-02742 20-02726		E331 RN-2 RN-2 L071	I-20-0001405 I-20-0001341 717R010525	AB SK	Salmonella Newport	Newport Newport	2020-07-22 2020-07-22	2020-07-09 2020-07-15	Human Human	Not given Stool	Female Female	19 16	2007NewWGS-1MP 2007NewWGS-1MP	no DOB or sample source provided .
New New	RN200001199 20-02876 BC20A512A 20-02845 20-02742		E331 RN-2 RN-2 L071	I-20-0001405 I-20-0001341	AB	Salmonella	Newport	2020-07-22	2020-07-09	Human	Not given	Female	19	2007NewWGS-1MP	

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Comparison generated using BioNumericsv 7.6.3 based on 4571 alleles. All isolates included in the analysis would be considered related by wgMLST. The wgMLST differences indicated at the nodes were calculated using UPGMA and therefore, are not whole numbers. To determine the nearest whole number value, round up if the digit following the decimal is 5 or greater; round down if the digit following the decimal is less than 4.

PulseNetCanada 2020-08-04

# CFSAN Biostatistics and Bioinformatics Staff WGS Analysis Rep ort

Report Title: Report SalRedOnion Thomson 20 1020

Firm Name: Thomson International. Inc (Bakersfield, CA)

Pathogen: Salmonella

Sample or Facts IDs:

1146715114671611467541146755114671311467141146757114679111467971146795

Date Generated: 20 October 2020

Bioinformatician: Yan Luo

### **WGS Interpretation:**

141isolateshavebeenwereWGS analyzedincluding4 sedimensample\$11467151,1467161,146754and 1146755b waterultrafiltrationsample\$11467131,1467141467571,1467911,146797and1 scatsample (1146795b) ollected from Thomsor International hc. (Bakersfiel A). Isolate FDA1146716-S001-A0 belong to possibly 17 different Salmonella trainslisted below.

- 1) Cluster1 (S. Montevideo) 6 isolates from sub 2 of sample1146754 were genetically dentical to one another, rep-resenting the same strain, which was also likely a matchto a sprout sample collected n 2012 and 48 clinical isolates (majority were from outbreak 1801 MLJIX-1), with less than 16 SNPs. (for bet-terresolution, the tree shown below is a subsettree of a large SNP cluster, which can be found at https://www.ncbi.nlm.nih.gov/pathogens/tree#Salmonella/PDG000000002.1980/PDS000027236?key=n9EeSWwrqV\_-n54zn p1ViPLQ7bewU1GqkA8VOngTcS5IL8ks)
- 2) Cluster 2(S. Montevideo) 8isolates were genetically denticate one another epresenting mestrain, including isolates from sub1 of sample 14675 2, isolates from sub1 and1 isolate from sub2 of sample 1146714,0 isolates from sub1 and5 isolates from sub2 of sample 114675 2, and2 isolates from sub1 of sample 114679 137 isolates from sub2, and 14 isolates from sub3 of sample 114675 3. Howeven't's inconclusive the these two strains were the same strain or not. It's also inconclusive the they matched anything lise in the database for better esolution, the trees how below is a subset tree of a large SNP cluster which can be found at https://www.ncbi.nlm.nih.gov/pathogens/tree #Salmonella/PDG000000000 280/PDS000028037.132? key=ltgXIZZDUzcAfWDRYROBRaewzm4fBo5 tgHGaKcI- 4PBgkCA)
- 4) Cluster4 S. Newport) 24 isolates were genetically denticate one another epresent in the same strain, including isolates romsub 4 of sample 146715, isolate from sub 2 of sample 146754, isolates from sub 2 of 1

- sample 146712 isolate from sub1 and 3 isolate from sub2 of sample 146712 isolate from sub1 and 3 isolate from sub2 of sample 146752 and 1 isolate from sub2 of sample 14679 This strain matche of clinical isolate collecte the twee of 2017 and 2019.
- 5) Cluster5(S. Muenchen) isolates were genetically denticate one another representing he same strain, including 1 isolate from sub 2 of sample 14675 and 5 isolate from sub 2 of sample 146716. This strain matche clinical isolate from 2019. It's also possible that this strain was the same strain that cause the alfalfas proutout breakin 2016 (1601 MLJ) 6-1).
- 6) Cluster6(S. subsp. arizoṇaᠻ)s highly likely that FDA1146716-S004-0@hd FDA1146795-S001-00 lmatchedtheenvironmental mplecollectedromwatercanalin CA within16SNPs. No otherisolates were found to be closely related to these three samples (https://www.ncbi.nlm.nih.gov/pathogens/tree#Salmonella/PDG000000002.1980/PDS000070967.2? key=15IWN 5VOyFs4QxNDYFt2fCrmYe-hUz8dIIE62WmPux8ozLjUqM)
- 7) Cluster7 (S. subsp.houtenae)FDA1146714-2-RXCwasa uniquestrain in the databasewith no other closely related so lates.
- 8) Cluster8(S. Newport)FDA1146791-2-THBand FDA1146791-1-RHGweregeneticallyidentical to each other, represent into the same strain, which matched foods amplecollected from AZ in 2015 It's inconclusive hether this strainwasthesame strainas 1 raw organics pinach so late of lected from AZ in 2018 and 6 clinical isolates from 2018.
- 9) Cluster (S. Anatum) 2 isolate from sub1 of sample 14679 were genetically denticate each other, representing exametrain. It's inconclusive whether this strainmatche danything else in the database.
- 10) Cluster 16S. Tennessee) isolate from sub1 and 2 isolate from sub2 of sample 14679 were genetically denticate one another representing the same strain. This strain was unique in the database with no other closely related solates.
- 11) Cluster11 (S. Tennessee) FDA1146797-1-TXBand FDA1146797-2-TXAweregenetically dentical to each other, representing the same strain. It's possible that this strain also matched so lates BCW 6535.
- 12) Cluster12 (S. Taksony) FDA1146797-2-TXBand FDA1146797-2-THOweregenetically dentical to each other, representing the same strain. This strain was unique in the database with no other closely related so lates.
- 13) Cluster13<sup>S. Thompson)</sup> isolates were genetically dentical epresenting he same strain, including 3 isolates from sub1 and 3 isolates from sub2 of sample 14679 It's inconclusive hethethis strain matched nything lsein the database.
- 14) Cluster14S. Braenderup) isolatesweregeneticallydenticarepresentinthesamestrain,including 4 isolatesromsub1 and5 isolatesromsub2 of sample14679 This strainmatched clinical isolatefrom2017.
- 15) Cluster15 (S. Elomrane): FDA1146791-1-RHA was a unique strain in the database, with no other closely isolates.
- 16) Cluster 16S. Senftenber DA1146791-1-TH washighly related o 2 other food is olates and 13 clinical isolates but it was in conclusive whether the rewas a matchamon gall those is olates.

 $In summary, about 17 different strains were identified from the 140 isolates, including 5 unique strains with no closely related isolates, and 4 strains that had clinical matche {\tt B} ut no ne of the 140 isolates was related to the onion outbreak strain.}$ 

NCBI SNPCluster ID(s): PDS000027237.135, PDS000028037.131, PDS000070968.1, PDS000051782.9, PDS000028057.8, PDS000070967.2, PDS000032341.9, PDS000028248.6, PDS000071575.1, PDS000031270.15, PDS000071572.1, PDS000032705.469, PDS000027685.2, PDS000031947.17

Cluster(s)canbemonitoredbysearchingforIDhere.

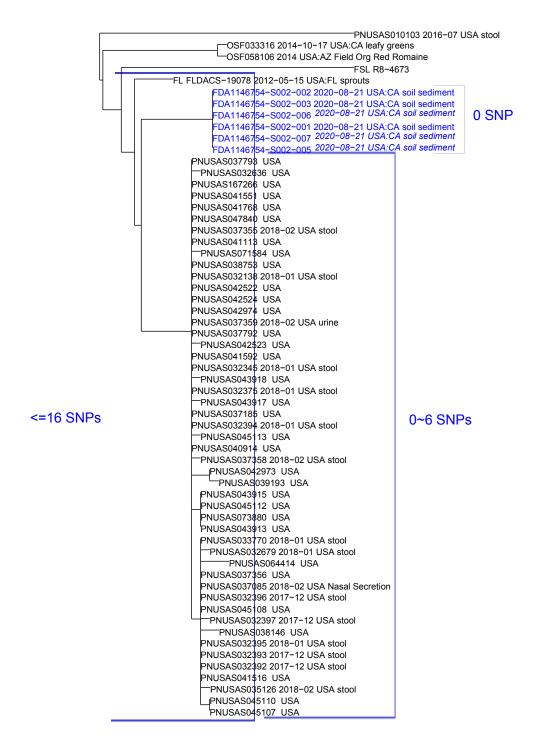
CFSAN SNP Pipeline Version: v2.1.0.

See below for phylogenetic clusters (if they were generated).

### References

- InformationabouttheCFSANSNPPipelinecanbefoundhttps://peerj.com/articles/cs-20/.
- Informationontheinterpretationof SNPdistancesandthoseclusterscanbefoundhttps://www.frontiersin.org/articles/10.3389/fmicb.2018.01482/full.

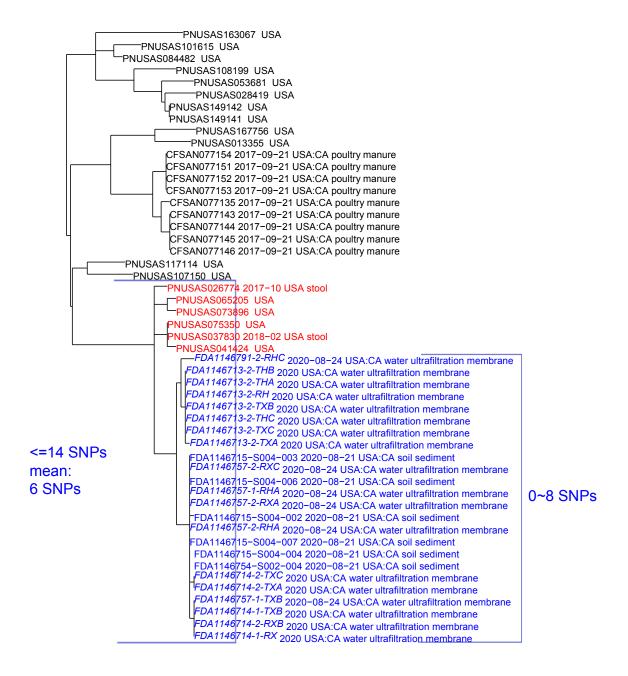
### Report\_SalThomson\_clust1\_200921



### Report SalThomson clust2 200921



### Report SalThomson clust4 200921



## Report\_SalThomson\_clust5\_200921

```
OSF071188 2015 USA:AZ Raw Organic Baby Spinach
                                                       OSF070564 2015 USA:AZ Raw Product
                                                        OSF071189 2015 USA:AZ Raw Organic Baby Spinach
                                                       OSF071193 2016 USA:AZ Raw Organic Baby Spinach
                                                       OSF070287 2015 USA:AZ Raw Organic Baby Spinach
                                                       OSF070286 2015 USA:AZ Raw Organic Baby Spinach
                                                          OSF070285 2015 USA:AZ Raw Organic Baby Spinach
                      PNUSAS002389 2016-05 USA blood
                      2016K-0290 USA
                      2016K-0293 USA
                       PNUSAS001996 2016-03 USA stool
                      PNUSAS002519 2016-05 USA stool
                      PNUSAS001854 2016-03 USA stool
                      2016K-0240 USA
                      PNUSAS002333 USA
                      PNUSAS001876 2016-03 USA stool
                       -2016K-0151 USA
                      PNUSAS002331 USA
                      PNUSAS001855 2016-03 USA stool
                      PNUSAS059246 USA
                         PNUSAS009502 2016-07 USA stool
                      IFSH00045 2016-04-11 USA:CA Alfalfa Sprouts
                       PNUSAS002591 2016-05 USA stool
                      2016K-0149 USA
                      2016K-0236 USA
<= 18 SNPs
                      PNUSAS001918 2016-03 USA stool
mean:
                      IFSH00046 2016-04-11 USA:CA Alfalfa Sprouts
                      -2016K-0150 USA
3 SNPs
                      2016K-0108 2015-12 USA stool
                      PNUSAS002056 2016-04 USA stool
                      2016K-0146 2015-12 USA stool
                      2016K-0152 USA
                      2016K-0291 USA
                      PNUSAS002332 2016-04 USA stool
                      PNUSAS002520 USA
                        2016K-0109 2015-12 USA stool
                       DFPST0074 2017-07-24 USA:TN Alfalfa Sprouts
                        DFPST0076 2017-07-24 USA:TN Alfalfa Sprouts
                        FSH00307 2017-07-24 USA:TN Alfalfa Sprouts
                                  FDA1146716-S002-006 2020-08-21 USA:CA soil sediment

FDA1146716-S002-003 2020-08-21 USA:CA soil sediment

FDA1146716-S002-001 2020-08-21 USA:CA soil sediment

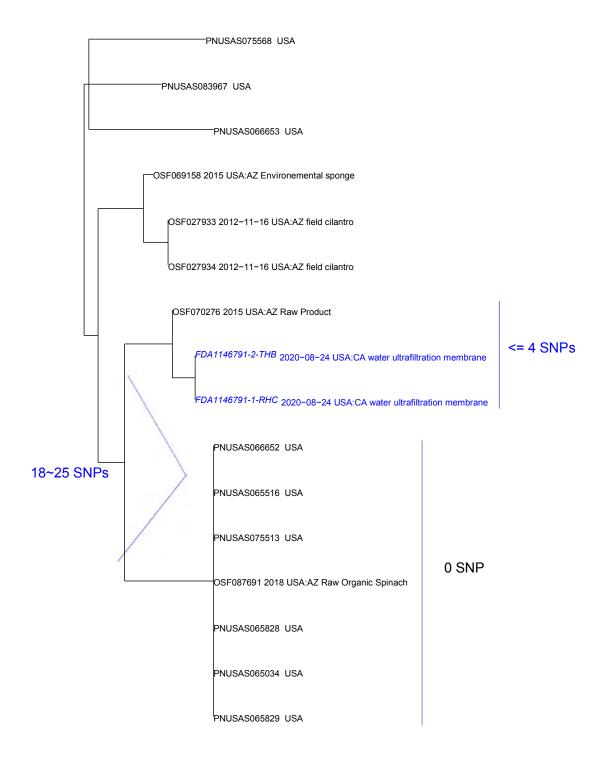
FDA1146716-S002-001 2020-08-21 USA:CA soil sediment

FDA1146716-S002-004 2020-08-21 USA:CA soil sediment

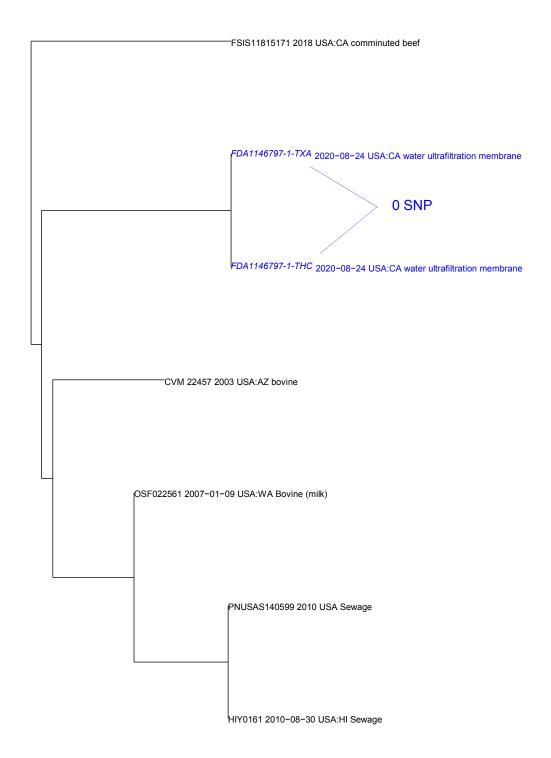
FDA1146716-S002-002 2020-08-21 USA:CA soil sediment

FDA1146757-2-TXA 2020-08-24 USA:CA water ultrafiltration membrane
                                                                                                                 <= 12 SNPs
                                                     PNUSAS066457 USA
                                                          PNUSAS 094059 USA
```

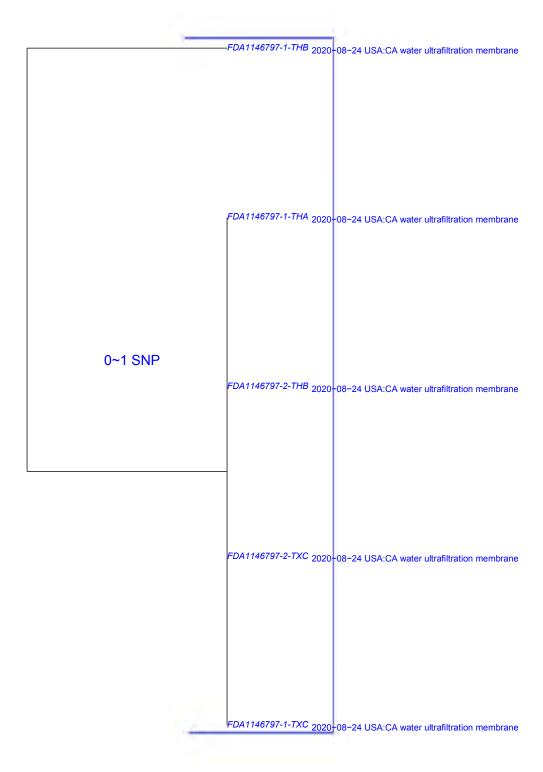
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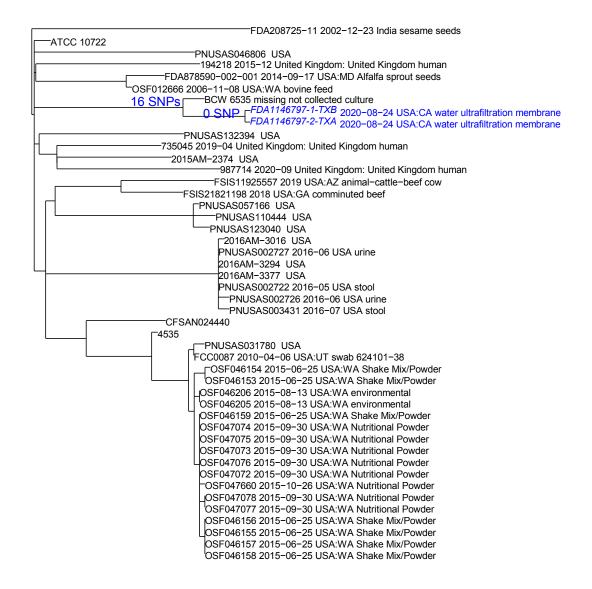
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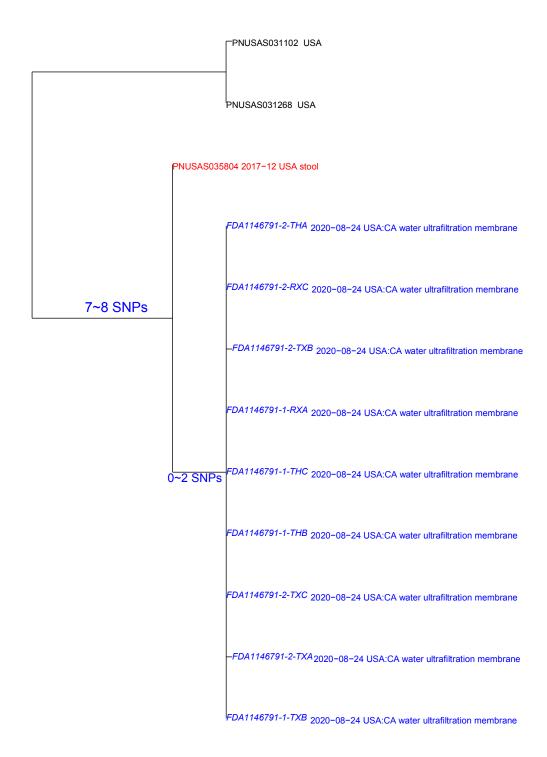
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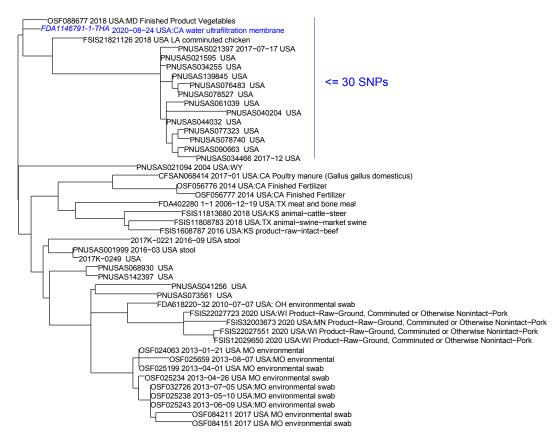
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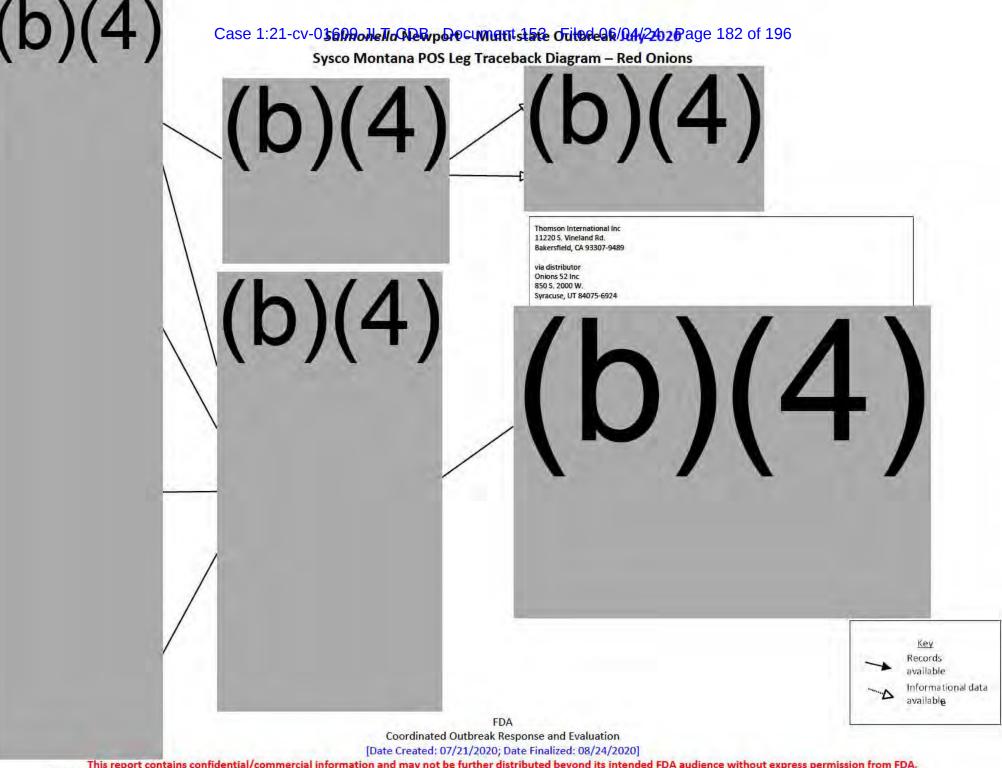
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CVM N54271 2014 USA NY chicken breast
      CVM NS4271 2014 USA NY chicken breast
PNUSSA149623 USA
989985 2017-07 United Kingdom United Kingdom human
984922 2017-07 United Kingdom United Kingdom human
WAPHL-SAL-A00307 2002 USA CT Chicken breasts
PNUSAS165309 USA
PNUSAS16788 USA
PNUSAS047248 USA
ERDP2179174
                  PNUSASOSS788 USA
PNUSASOS7878 USA
PNUSASOS7874 USA GA chicken breast
CVM N4233 2012 USA GA chicken breast
CVM N4233 2012 USA GA chicken breast
CVM N4235 2012 USA GA chicken breast
TVM N4234 2012 USA MN fricken breast
PNUSASO12418 USA
FSS1227699 2020 USA NN raw infact chicken
CVM N4286 2012 USA MN thicken breast
FSS1227699 2020 USA NN raw infact chicken
FSS21720701 2017 USA GA comminded chicken
FSS41746791-1-RVC 2020-69-24 USA CA water ultrafiltration membrane
FDA1146791-1-RVC 2020-69-24 USA CA water ultrafiltration membrane
TDA1146791-1-RVC 2020-69-24 USA CA water ultrafiltration membrane
TDA1146791-1-RVC 2020-69-24 USA CA water ultrafiltration membrane
FDA1146791-1-RVC 2020-69-24 USA CA water ultrafiltration membrane
FDA1146791-1-RVC 2020-69-24 USA CA water ultrafiltration membrane
FDA1146791-2-RVC 2020-69-24 USA CA water ultrafiltration membrane
FDA1146791-2-RVC 2020-69-24 USA CA water ultrafiltration membrane
FDA1146791-2-RVC 2020-69-24 USA CA water ultrafiltration membrane
| PA1146791-2-PA9 3000-08-24 USA CA water utraffication membrane | PA1146791-2-PA9 3000-08-24 USA CA water utraffication membrane | PA1146791-2-PA9 2000-08-24 USA CA water utraffication membrane | PA114791-2-PA9 2000-08-24 USA CA water utraffication membrane | PA114791-07-09 Utraffication | P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0~2 SNPs
            IFNUSAS011078 2017-03 USA abod CVCVM N189011 2018 USA CA-U-C Dravis Chicken Thighs THUSAS016903 USA THUSAS16903 USA THUSAS14947 USA THUSAS14947 USA THUSAS14947 USA THUSAS1974 USA THUSAS1
                                                        CFSAN030084 2012 USA AL product-eggs-raw-yolk
CFSAN030088 2012 USA OR product egg raw whole
PNUSAS086288 USA
CFSAN035295 2012 USA GA product egg raw white
CFSAN030087 2012 USA OR product egg raw whole
```

### Report\_SalThomson\_clust14\_200921



#### Report\_SalThomson\_clust16\_200921





Case 1:21-cv-036/No.Wella Cherry Drocumant state of the deals / QA/22020 age 183 of 196 Sysco Portland POS Leg Traceback Diagram - Red Onions

(b)(4)(b)(4)11220 S. Vineland Rd. Bakersfield, CA 93307-9489 via distributor Onions 52 Inc 850 S. 2000 W. Syracuse, UT 84075-6924 (b)(4)Records available

Key

Informational data available

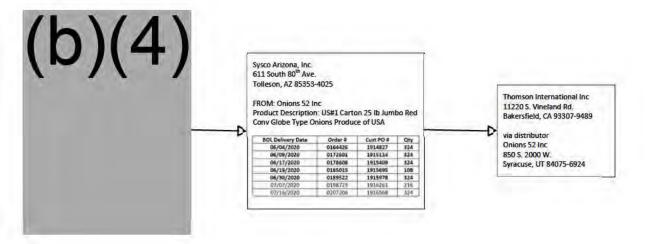
FDA

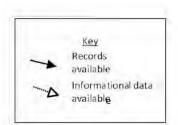
Coordinated Outbreak Response and Evaluation

[Date Created: 07/21/2020; Date Finalized: 08/06/2020]

### Case 1:21-cv-0360Hollella Newporocumantistate of titodean/04/24020 age 184 of 196

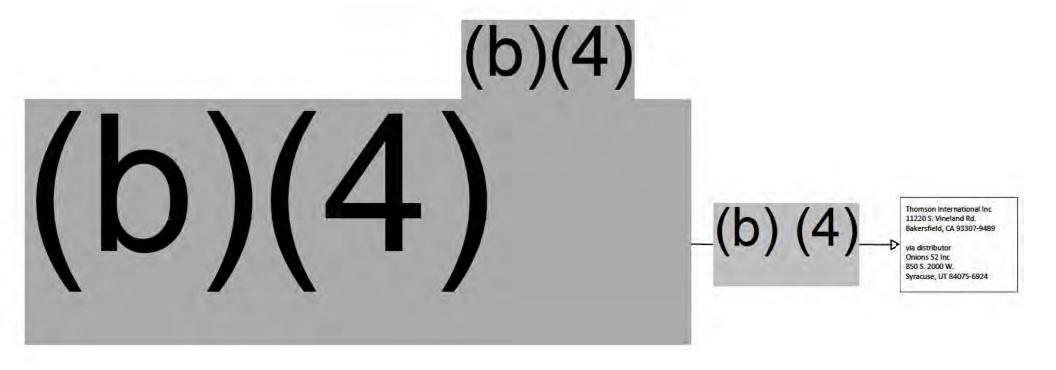
#### Sysco Arizona POS Leg Traceback Diagram - Red Onions

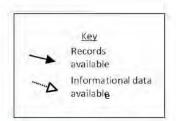




#### Case 1:21-cv-0360HolleTid Newport cumuntistate of the deale / DAV 24020 age 185 of 196

Pat's Select Pizza and Grill Leg Traceback Diagram - Red Onions



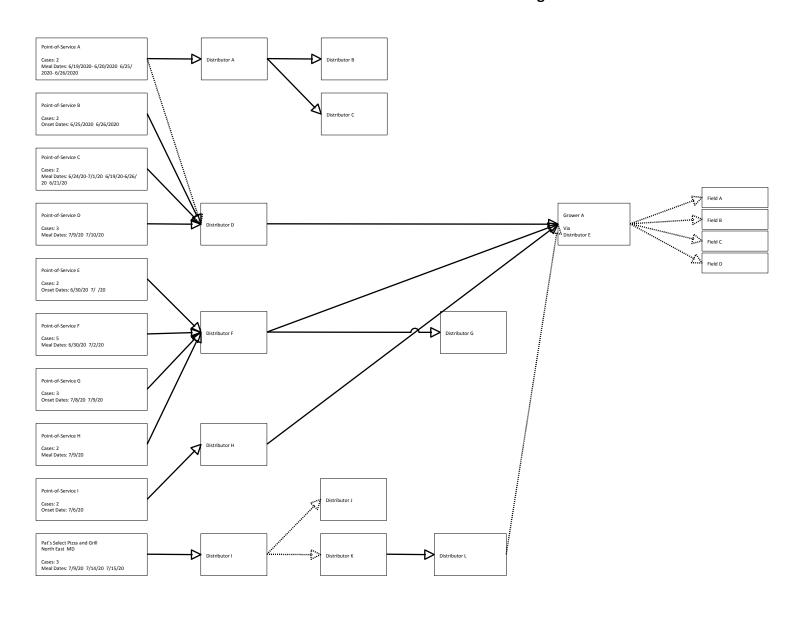


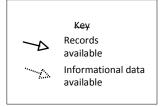
FDA

Coordinated Outbreak Response and Evaluation

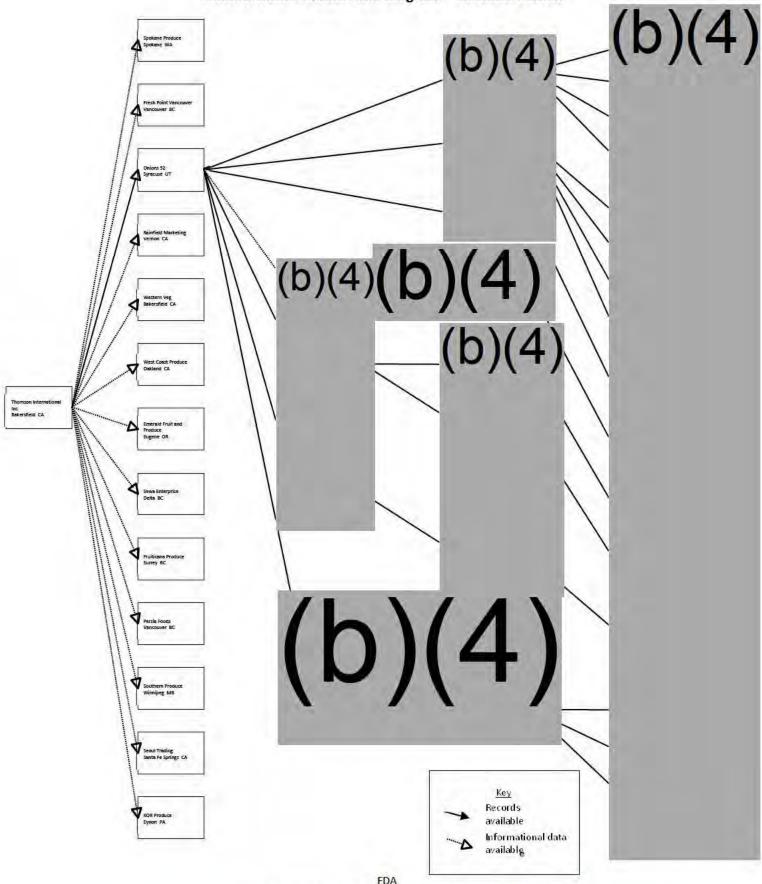
[Date Created: 08/26/2020; Date Finalized: 08/28/2020]

# Case 1:21-cv-0560000 Newport CLYMANTI-state Outbreak/04/02020 age 186 of 196 Master Traceback Diagram – Red Onions





Traceforward Product Flow Diagram - Recalled Onions



Coordinated Outbreak Response and Evaluation [Date Created: 08/26/2020; Date Finalized: 08/28/2020]

## **EXHIBIT 3**

#### **Simone Stampfer**

From: Helen Chen

Sent:Monday, June 5, 2023 12:26 PMTo:Simone Stampfer; Patricia ChavezSubject:FW: Your FOIA Request 2023-4418

Pls. upload and email.

Sincerely,

Helen Chen

Greenan Peffer Sallander & Lally LLP 2000 Crow Canyon Place, Suite 380 I San Ramon, CA 94583

I Direct: 925.498.2404 | Fax: 925.830.8787

Website: www.gpsllp.com | Email: hchen@gpsllp.com

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From: Wilde, Samantha <Samantha.Wilde@fda.hhs.gov>

**Sent:** Friday, June 2, 2023 11:28 AM **To:** Helen Chen <a href="https://hencom/sepsllp.com/">hencom/sepsllp.com/</a>

Cc: Jones, Kimberly (CFSAN) < Kimberly. Jones@fda.hhs.gov>; Rennie, Chalmer < Chalmer. Rennie@fda.hhs.gov>

Subject: Your FOIA Request 2023-4418

Attention: Helen Chen

This is email is in regards to your Freedom of Information Act request, dated May 24, 2023, submitted to the Food and Drug Administration (FDA), assigned to Center for Food Safety and Applied Nutrition (CFSAN) seeking:

All publicly-available records relating to any reported illness of John Kahlie, including but not limited to correspondence, investigative reports, medical records, laboratory test results, epidemiological records and Whole Genomic Sequencing ("WGS") ID related to John Kahlie. 2. All records relating to your investigation of Thomson as a potential source of Salmonella Newport outbreak in 2020." 3. All records relating to the WGS of Salmonella Newport outbreak in 2020. 4. All records detailing potential sources of Salmonella Newport outbreak in 2020. 5. All records detailing potential sources of Salmonella Newport outbreak tied to onions in 2020. 6. All of your traceback records relating to the Salmonella Newport outbreak in 2020. 7. All records detailing your investigative procedures for identifying sources of foodborne illnesses reported to you that were used to identify the source of foodborne illnesses reported in 2020. 8. All records relating to efforts to continue investigating foodborne illnesses after a potential source is identified that were part of your procedures for foodborne illness outbreaks in 2020.

A portion of your records can be found on FDA.gov at the link here: <u>CFSAN FOIA Electronic Reading Room Postings</u>, Posted 2023, in which you will find responsive records here: <a href="https://www.fda.gov/media/166751/download#10408">https://www.fda.gov/media/166751/download#10408</a>

Case 1:21-cv-01609-JLT-CDB Document 153 Filed 06/04/24 Page 190 of 196 Your request is granted in part. After a thorough review of the responsive records, we have determined that portions of the documents are exempt from disclosure under FOIA exemptions (b)(4) and (b)(5) of the FOIA 5 U.S.C. § 552, as amended and delineated below:

- Exemption (b)(4) protects from disclosure "trade secrets" (TS) and "commercial confidential information" (CCI) or financial information that was obtained from a person outside the government and that is privileged or confidential.
- The FOIA exemption (b)(5) permits the withholding of inter-agency or intra-agency communications records which are part of the deliberative process and pre-decisional. Disclosure of such material could inhibit the open and candid expression of opinions and diminish the quality of the decision-making process.

In determining to withhold such information, FDA considered 5 USC 552(a)(8)(i), when applicable, and whether FDA reasonably foresees that disclosure of such information would harm an interest protected by the relevant exemption(s) and whether disclosure is prohibited by law.

CFSAN is responding with records only to items #1-8 of your request. CFSAN conducted a search for item #1 and was unable to locate any records responsive to that item. Therefore, CFSAN considers your request closed. This response does not constitute a final agency action, please be advised that your request has been assigned to one or more FDA components that will reply directly to you with any responsive records in their purview.

You have the right to appeal this determination. By filing an appeal, you preserve your rights under FOIA and give the agency a chance to review and reconsider your request and the agency's decision. Your appeal must be mailed within 90 days from the date of this response, to: Director, Office of the Executive Secretariat, US Food & Drug Administration, 5630 Fishers Lane, Room 1050, Rockville, MD 20857, E-mail: FDAFOIA@fda.hhs.gov. Please clearly mark both the envelope and your letter "FDA Freedom of Information" Act Appeal."

If you would like to discuss our response before filing an appeal to attempt to resolve your dispute without going through the appeals process, please contact Kimberly. Jones @fda.hhs.gov or by telephone 240-402-1825. You may also contact the FDA FOIA Public Liaison for assistance at: Office of the Executive Secretariat, US Food & Drug Administration, 5630 Fishers Lane, Room 1050, Rockville, MD 20857, E-mail: FDAFOIA@fda.hhs.gov.

If you are unable to resolve your FOIA dispute through our FOIA Public Liaison, the Office of Government Information Services (OGIS), the Federal FOIA Ombudsman's office, offers mediation services to help resolve disputes between FOIA requesters and Federal agencies. The contact information for OGIS is as follows: Office of Government Information Services, National Archives and Records Administration, 8601 Adelphi Road-OGIS, College Park, MD 20740-6001; telephone at 202-741-5770; toll free at 1-877-684-6448; or facsimile at 202-741-5769; e-mail at ogis@nara.gov.

Please do not submit payment until you receive an invoice. The following charges for this request to date may be included in a monthly invoice:

Review \$0.00 Other \$0.00 Reproduction \$0.00 Search \$0.00 Total \$0.00

Sincerely,

## Case 1:21-cv-01609-JLT-CDB Document 153 Filed 06/04/24 Page 191 of 196 Samantha Wilde

#### Samantha Wilde

Government Information Specialist
Center for Food Safety and Applied Nutrition (CFSAN)
Office of Regulations and Policy
U.S. Food and Drug Administration (FDA)
Tel: 240-402-0003

samantha.wilde@fda.hhs.gov



## **EXHIBIT 4**

#### Case 1:21-cv-01609-JLT-CDB Document 153 Filed 06/04/24 Page 193 of 196

From: Vidanes, Jeff@CDPH < Jeff. Vidanes@cdph.ca.gov >
Sent: Tuesday, July 28, 2020 8:47 AM

To:

StateRFR-Needham, Michael

< Michael. Needham@cdph.ca.gov >; Adcock, Brandon@CDPH < Brandon. Adcock@cdph.ca.gov >
Cc:

Subject: RE: CRT3 - Updates from CA clusters and Need for Assignment to
Salmonella Newport/Unknown/Jul 2020

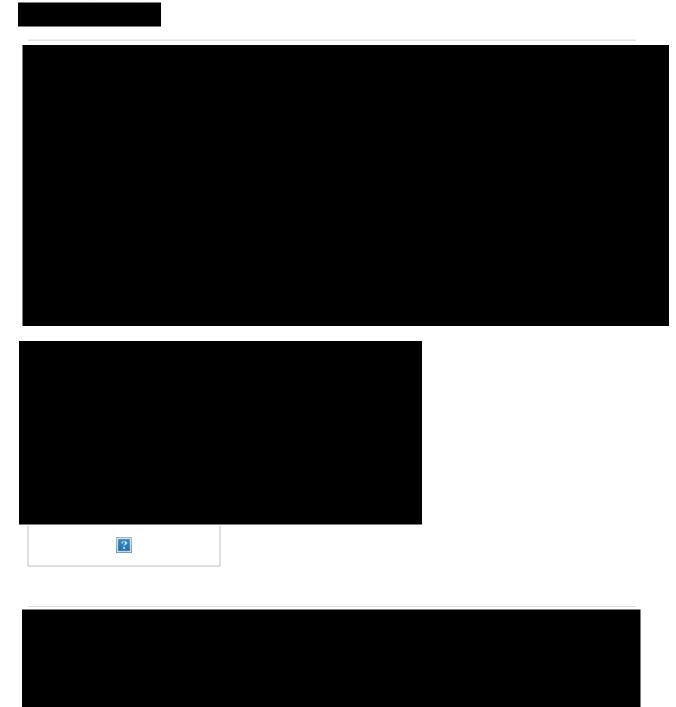
Hi Nicole,

We expanded our investigation to include tomatoes and onions, in addition to cilantro. All of the 22 cilantro samples that we collected from retail last week tested negative for Salmonella.

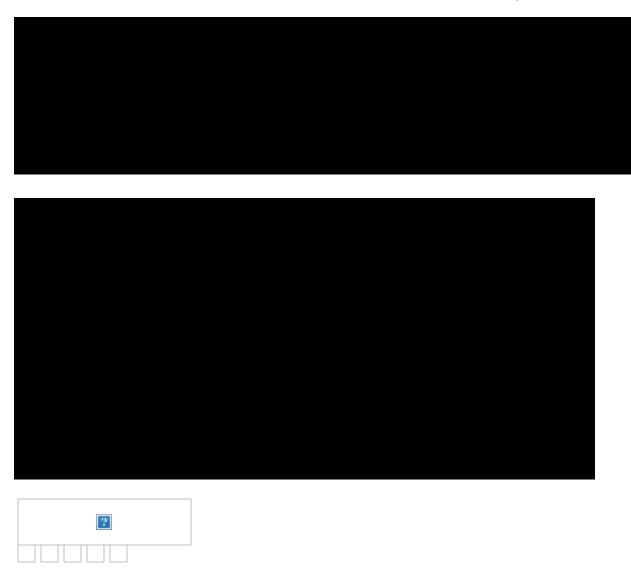


#### Case 1:21-cv-01609-JLT-CDB Document 153 Filed 06/04/24 Page 194 of 196

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